documentation

Crime Waves Build A DTMF Decoder Nynex Cards Hacking Health Software Piracy Cable Denial Cable Denial Facts on FOIA	Blue Boxing - CCITT System #5 A Gift From Hallmark / 10XXX Scary News 2600 Marketplace Michigan Access Book Reviews British Trojan The Chrome Box
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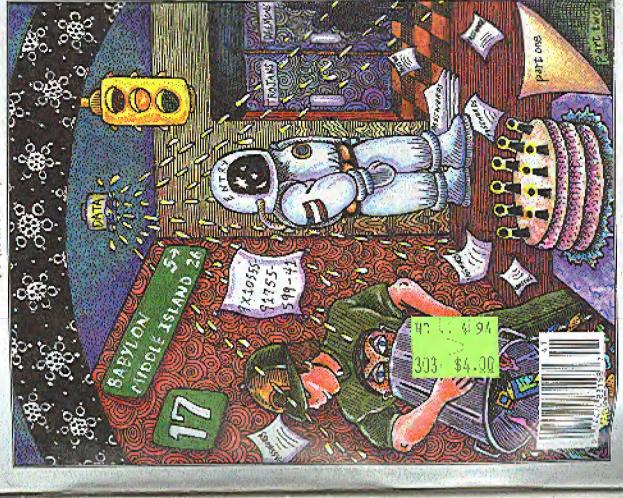




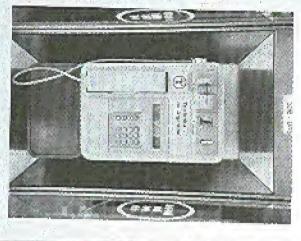
The Hacker Quarterly

VOLUME REEVEN, NUMBER ONE SPRING 1994

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PAYPHONES OF ARGENTINA













can puess which one we're not sure about, Burnos Aires is divided between the two. Both unrapsuites use the sume takens but their eards aren't compatible. See if you can guess which phones belong to which companies. See if you Argentina has two phone companies: Telefonica in the south and Telecom in the north Photos by Edward Stoener

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Spring 1994 2600 Magazine Shout Outs Early, Judgipps, and the bots.

Crime Waves

chain stores. Reality has always been printed. And today you can find us in and alloyways to get our first issues when we literally snuck around in offices strange to look back at the early days or even our existence in 1994. It's pretty nobody could have predicted our growth, project back to the summer of 1983. anything. When we first started this A decade is a long time to be doing

determination. One thing these years but also sedness, fear, anger, and have been inged with bilarity and fun, meet for the first time. The last ten years more knowledge to share, more friends to something new to explore and discover. happening in this world, always life. There is always something important part of the average American's have not been is a waste of fine. boredom that has become such an time within it and never leet the kind of world is such that you can spend a long be abject (ailures, Fortunately, the hacker the same thing for ten years, we would all Of course, if we had just here doing

our friends and family for twing different armed men. We risk being chastised by the proper questions or memorizing the and ostracized in school for not asking means of learning taken from us by large disrupted by our accasers, our very standard answers. some sort. We risk having our lives corporations and their law enforcement knowledge, we enjuge in a conspiracy of drones. Each and every time we share these include pissing off the powerful turn, there is a risk. The most obvious of We know that with every page we

These are the obvious risks of who we

OF THE WARRING. many of us could fall victim to with little greater risk facing us and it's one that come to recognize them. But there is a facare and what we do. Most of us have

sensitive computer systems around the capable of this unimpressive (eat, dollars of long distance calls. Anyone is into your andit file. But so can enythedy world. And the holes will still be there it Hackers can break into thousands of else. Hackers can make thousands of press loves to scream, hackers can ger has been most difficult. As the tabloid the posth that hackers are criminals. This We never (IV. Over the years, we've tried to dispel

criminal behavior because it's what's wild and imaginative ways. By defining the two as one and the same, we could expected of us. actually limit ourselves being nudged into manipulates the telephone network in is the same person as somehody who same. Somebody who selfs phone codes for personal profit. To them it's all the of adventure and using hacker knowledge distinction between Jacking for the sake What the press fails to see is the

might actually be able to proy on our continuity. It's not surprising. And they to ingratiate themselves into the backer physical, tangible merchandise, are trying card fraud, that is, the stealing of sensel number of people who engage in credit there to sell or buy codes. A disturbing of our meetings assuming that wo're media perceptions. People have shown into our fuld through these very same concern. Many people are being drawn of the backer community is cause for With this in mind, the massive growth

> prowess oftentimes doesn't extend tricks. And by calling thereselves beyond knowing how to operate a red they do. Ironically, their technical hackers, they manage to justify what it is hox or punch in a code. their midst, thereby learning a few new temptations and suck some trackers into

that society thes family found a use for us. dangled in front of our faces. Our brains developed for hackers. Carrots are being are suddenly in demand. You might say mainstream eriptinal world, mainstream world, and hence the given the growing awareness that the This kind of thing was inevitable 1125

would make us? And we trying to survive we intent on selling our knowledge to the Or do we want to get what we feel the do what we do. Is it that we want to find and got access to a looked world? Or are out things and spread knowledge around? thing as individuals is to realize why we Knowing this, the most important

us will have some sense of where we selvaging some self respect. The rest of that they are now criminals, thereby critic can at least admit to themselves outselves. Those who use their hacker draw our lines. knowledge to embark upon a life of we can at Jeast be honest with Once we understand our motivation, are more valuable then anything clse. Truthful answers to these questions

always a good idea. such a case, trusting your instincts is something doesn't feel right. And in many of us, we just know when longer seems an accurate definer. With does not? Regrettably, the law no constitutes criminal behavior and what But how do we know what

To be a backer, your primary goal

the rest of us back in the age of verge of becoming a criminal and leaving off" in a big way, you're probably on the schemes to make your knowledge "pay drooting wannabes with a list of plots and being trailed and hounded by a bouch of hacking. If, however, you find yourself appreciate, welcome to the world of incomprehensible that only you can you. If most of them think you're washing the reaction of the non-hackers around ocitain thing at a particular time under a if you're a genuine harker is to look at specific condition. A good way to know just to find out what happens if you do a must be to learn for the sake of learning -3001 1EO/ Saice something

hackers have been caught actively hackers. We have to wonder. encouraging criminal behavior among been helping the government prosecute instance, people who were found to have curious side note, in more than one than by legislation. Nothing would be criminalize hacking by definition, rather better for the anti-backer lobbyists. As a into the hands of our enemies and the hacker would. We would play right journey en masse would mean the end of Obviously, embarking on such a

to behave like the phone companies and rest of us a bad name. The only surefire restrict knowledge. Not likely. way to keep this from happening is for us means that some opportunists will get a knowledge is our common enemy. This spread what we find because segregated free ride and run the risk of giving the We hack because we're curious. We

truly don't understand. noble, if somewhat gaive, aspirations it is our meral obligation to keep our frem becoming subserted by those who It's not our job to catch eriotionis. But

build a dtmf decoder

by Xam Killroy

voltages are different than TTL voltage voltage level driver (because RS-232 PROM (to translate from four-bit binary to stable clock generator; a custom burned would actually take two shift registers, a ASCIII phone-pad symbols), and an RS-232 boarding it together, and soon realized it No problem, I thought So I started bread simultaneously send it out over a social line. would display the current digit and product that was reviewed. Originally, I intended to make a tone decoder that around the Tellone 8870 DTMF Raceiver expansive." So I designed this decoder "A pity that like a lot of good tools it's so issue of 2600, the last line got me thinking: TOD-9 DTMF Decoder in the Summer 1993 IC, the same part used in the FDD-8 When I saw the product review of the

easier to use than a 'real computer." applications", the C-54 is actually much \$1400 486 or your \$2000 Macintosh, And as you would if you had just thed your for bit manipulations and other "hacker experimenting, you don't feel meanly as bad contained, and if you do blow one up hacker's took. They're durable, selfcurrent computing muscle out there, but they are still enormously aseful as a because they can't compare to any of the a current street value of about \$50, ago, the Commodore 64 was a very crap for me." And I had just such a sling conversion and communication and logging millions of them floating around. They have popular consumer computer, and there are sating in my closer gathering dust. Years is a cheap computer to do all this "What I want," I thought in annoyance

The Msc and PC are designed to be used by people who should never need to get to the gods of the computer. Running applications is easy. But if you want to write code, you need to get a compiler, with a source file, compile it, link it; and then run it. If you want to build your own I/O devices, you'd better, be a very good hardware.

designer. But when you turn on a Commodore 64, you are immediately in a Commodore 64, you are immediately in a BASIC interpreter, and getting to machine sevel from these is not very difficult. If you want to read a mamory value, you just PEEK at it from 8,4,510. And there are multiple I/O ports to play with, all very easy to get to.

radio input, you can make an amateur radio remotely with a touch tone phone. With a feed contracted to your application control. With a relephone input, you can limited only by your imagination. repeater controller. The applications are other applications that use touch tone audio source, and you can even make this DTMF decodor as an input device, you can desode and list touch tones from any Computer (street value; about \$10), With show you how to interface this project to a expensive dedicated DTMF decoder, IN even order all the parts as a kit (see Commodore-64, or even a VIC-23 logging capabilities of a much more misutes. And then if you want all the sidebar) and solder it together in about 20 decoder, with a one digit display. You can you need to build a stand-alone DTMF In this article, I'll show you everything

your hacker's look box. And perhaps these design applications that you can add to response to this project, I'll continue to door stops. If there is enough reader but there are also applications that don't Pentium when you're playing X-Wing or technology. There is no substitute for a understand, I'm not advocating retrograde you can once again get use out of those read all that power, and with this project running Grack on someone's password file, and if you don't have one you can probably toy computers" which currently serve as them for as little as \$20). Please pick and up at a garage sale (I've seen projects. Lats of people have them already, reasons I chose this particular computer it's easy to use, expedsily for these sorts of why a Commodore 64? There are soveral Some people might look at this and say

projects will also give you some ideas, so you can design and build your own custom tools.

Of course, if you don't have and don't want to use a Commodore 64, and you know enough about the hardware interface, you can always hock this DTMF decider to any computer of your choice, even a PC or Macintosh. The operation and outputs are explained below. The rest is left as an exercise to the reader.

Circuit Description

This section is for anyone who really wants to know what every part of the circuit is doing. If you don't really care, this is land vital and you can skip to the next section. 'Circuit Construction',

The schematic diagram for this project is shown in Figure 1. The three major components are the DTMF Receiver IO (IC1), the display driver IO (IC2), and the seven-segment LED that displays the current digit. All the other parts provide power, support, and input conditioning for the circuit.

present on the input to be considered valid, that determines now long a tone must be Finally, R3 and G2 form an RC firring delay the velues chosen have (R3= 350K, C2 = next tone is considered a "new" tone. With and then how long it must be off before the slandard 3.58 MHz colorbuest orystal. generate its Internal clock (X1) is a internal differential input amplifier in the valid is about 40 milliseconds. .fuF), the time for a tone to be considered 8870 to unity. The crystal used by IC1 to circuit (R1= R2= 100K) sets the gain of the audio amplifier feedback loop, which in this signal. The resistors (R1 and R2) form the (C1) is to block any DC in the audio input The capacitor in the audio input path

The four-bit decoded output of the 5070 goes to a several segment decode/driver, which is IC2, a 7447. The use of an of-the shalf part like the 7447 is convenient and cheap, but provides one problem; the decoder IC doesn't output a binary 0 for an input touch tone digit of "0". Furthermore, all the other non-numeral digits (4, ", A, B, C, D) are also rendered as symbols by the decoder IC. See "Circuit Operation" section below. The 7447 drives a common another

the circuit from the host computer bus, by the entire circuit and makes the total however, is that it limits the current drawn segments. The advantage to having H4 numeral "8" which uses all seven of the place is that the display will get dimmer burn out. The disadvantage to having R4 in display will be much brighter but still not Because the 7447 has internal limiting seven-segment display on which the Computer Interface" section). where current drain may be an issue (see is particularly useful if you intend to power turrent drain more uniform over time. This segments, is considerably brighter than a example, a numeral "i", which has only two when there are more segments on. For resistors, R4 can be left out, and the total current that the LED can draw. decimal point serves as a power-on and valid-tone indicator. Resistor R4 limits the

When operating without power from the host computer, or in a stand-alone configuration, power is provided to the climatible a voltage regulator (IC3) which sources 5V from any input voltage between about 7.5V and 20V. The chapt is intended to be used with a 9V hattery (attached to CON1).

Circuit Construction

You will need several tools to begin: wire outlers, wire strippers, a low-wattage soldering iron, and some rosin core (not add core) solder. You will also want a heat sink (such as an aligator clp), and a well-lighted workspace where you can drip solder.

strongly suggest you purchase the pre-lab made a printed circuit board before it tolerances are fairly tight. If you have never between IC pins on this acard, the layout boards is beyond the scope of this article. entire process of eating and driling circuit photographically, but walking through the actual size in Figure 2. This shows the single-sided printed direct board 45mm x Because there are traces running in test way to tabricate the circuit board is component side) of the circuit board. The appear on the underside (opposite from 65mm. The artwork for the board is shown copper traces as they should actually The entire circuit can be build on a

Figure 3 - Component Layout Guide

> assemble it on perf-board, using the circuit is also simple enough that you can board, or the entire kit (see sidebar). The circuit board, but it won't be as durable or schemate in Figure 1, without the printed

ending with the voltage regulator (ICB): talliest, starting with IC1 and IC2, and Inserted in order by beight, from shortest to on them white you solder them in place. the resistors, because the board can rest its leads off, it's easiest if you begin with The rest of the components can then be board, and then spider it in place and trim Figure 3. Insert each component in the (plank) side of the circuit board is shown in The component layout on the top

2

plean solder joint. for the minimum time needed to get a good the soldering iron to the component leads You should make sure that you only apply the leads of the IOs as you solder them. dip connected on the component side) on should use a heat sink (such as an aligator LEO, are susceptible to thermal damage if components, particularly the IQs and the solder the parts, remember that the is no grease from your singers. When you it down with rubbing alcohol and then you get them too hot. This means that you wiping off any excess withinsure that there dean before you begin soldsring. Rubbing Make sume that the board surface is

have them oriented correctly before you those parts (IC1, IC2, IC3, LED1, or certain of the correct offentation of any of CON1), study Figure 3 and make sure you connector (CON1) in the hole closer to the toward the edge of the board. Make sure the ICs and the metal tab facing the edge voltage regulator (IC2). If you are not you put the red lead on the battery the seven-segment display should be prout will not work. The dealmat point on of the board. If you put it in backwards, the the front (the knoeled side) facing toward only one parrect orientation, which is wish regulator. The voltage regulator also has the edge of the board with the voltage must have the end with the notch toward will alt in two different directions, but you the board with the correct orientation. They Also make sure that you get the ICs in

orlder them in place.

and IC2 (which is where the computer should be seven unfilled halps between ICa Interface is opprincied, see below). When the circuit is finished, there

Circuit Operation

「中心をいるは、 the display uptil the next valid tone is tone has stopped, the decimal point will input, the decimal point will turn off. Once a display. When a valid tone is applied to the displays the value on the seven-segment circuit receives a "valid" touch tone, it a tode source to the audio input. When the now ready to depode DTMF longs, Connect point on the LED should light up. You're Ight again, and the number will remain on by connecting the SV battery. The decimal Once you have built the gircuit, turn it on

displayed on the seven-segment LEO for is displayed as a "0" on the seven segment numeral symbols. A touch tone "D" is what culput a binary to for the tone "2", it is inputs, their bloary outputs, and the symbol LEO, Table 1 shows all of the bouch tone actually displayed as one of the nonis displayed. Secause the 8870 doesn't DTMF receiver is the way a touch tone "0" display driver (the 7447) with the 8870 One quirk of using an off-the-shell

Computer Interface

symbol displayed remains the same. fiext valid tone arrives while the number or Furthermore, if the same touch tone digit is until the next tone comes along. displayed on the seven-segment display as a stand-alone device, it is difficult to seeing the decimal point blink off as the will tell from looking at the display is by catch multiple digits, because they are only received twice in a row, the only way you Although this tone decoder can be used

computer. The six hales on the decoder the far right as you look at the back of the computer with a binary input port. For this project. I used the user port on the digit display (like a screen). All we noted is a record the digits as they occur, and knop witen you back it to something that can Commadare 54. This is the card edge on them in memory or display them to a multi-This decoder becomes really useful

circuit board between IC1 and IC2 are where you connect the board to the user port. The seventh hole (at the top of the Decoder) is an auxiliary power input, if you want to power the decoder drouit from the computer (and eliminate the niped for battories). Figure 4 shows which prins on the board. The bottour-incet hale on the board. The bottour-incet hale on the board is the ground connection, the middle five holes are the tour bits of the decoded digit and the valid bit. By connecting than to the user port, the state of the DIMF decoder is now inflected by the user port data byte in the computer's chemory.

of BASIC is planty tast for our needs. written even in the glacially guick language DTMF digits can arrive. So a program biazingly test compared to the speed that computer by current standards, but it is still process. The Commedere 64 is a very slow over. Figure 5 shows a flow-chart of this again before we start the whole process goes high (1), and then we record the we check again. We look until the valid bit of) the user port if the valid bit is low (0), We just keep "polling" (checking the value the DTMF decoder is pretty straightforward. current digit from the tour-bit binary input Then we wait for the yelld bit to go low The algorithm for reading a digit in from

The sample program in Figure 6 is a DTMF number legging program. It some for digits, if a right is received, it prints it to the screen and waits for the next digit. If if gets a whole screen of digits, it will print them all on the same line. If it gets e "#" sign, or if there is a delay of more than three scoonds until the next digit, it will skip to the next time and print any subsequent digits there. Numbers are not stored in memory, so once they scrott off the top of the screen, they are lost

The code for the BASIC number logging program is broken down into subroutines and commented to indicate what is happening where. You can use this as a guide to writing your own code, or you can just copy sections of this program into your own. The possibilities of what you can do with this are limited only by your imagination. It's up to you.

And now you have a DTMF decoder, a's

cheaper than an equivalent commercial product, and it offers a chance to start your own flacker's toot kit, in the splitt of the earliest pioneers who built all their own equipment Good luck and have fun.

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Many of the parts for this it are available
at Ratio Shock and have Racks Shock part
numbers in parentheses sent to them. The
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fairly printed circuit board, if you
also sell just the printed circuit board, if you
prefer.

P1_P2_JCK Olm (275-1547)
P3_30X Olm (This part value can be varied widely, so you can substitute at 470X Ohm resistor, Radio Shack part pumber 271-1354)

B4 350 Ohm (277-1315) C1, C2 - 1 microfigued (272-1069) X1 - 3,58 MHz Collarburgt Chystal

(ED) - Cammion Arroda Seven-Segment LED

C1. Tehono 8870-1 DTN/F Received (You) can call Tellione et 1-000-426-8975 to find your nearest distribution 1
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CD(4) 9 V Sattery Olip (270-375)
Optional
Optional
OON2 - Female RCA Phono Plug for Audio
Input (274-346, but this is not the printed
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board and is designed for:

CON3 - 24 Pin 112 pin/side; card edge
connection, 156° spacing their connection (o)
the Commodore 54 User Port)

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10 COSUB 10000: REM INITIALIES VARIABLES 20 CASUB SCOO: REM SET FOR COMMUTER TYPE 30 COSUB 4000:EBM INITIALIES THE FORT 1000 IP DEEX[GREG] AND 16 THEN SOTO 1020 100 REM HAIM FROCEAS LOOP 1010 GOOD 1000: LOOP UNTIL VALUE BIT GOES HI. 140 COTO IES: REM CONTINUE WALL LOOP 020 Trible=0000 (1986) Nep 15 GOSGO 1600; FEM GET A DIGIT TO SCREEN, OFONTING LAST DIGIT TIXE COOMS 3000: MAN WART FOR THAT TAKE TO EMP RETURN OF THE LAST > 180 THEN PRINT CRIME CLIEF (CHAP): METURN TASTETIME IF PERK (LEES) AND 16 THEN GOTO 3000

10010 |ODDO DIH CKY\$(15): SSH DIMESICHS OLYMIN SYMBOL ARAAK KETUKN DREG-37136; RES USER FORT DATA ADDRESS REGISTER FOR VIC-20 DIR-37138: REM GREW FORE INTO AIGHESS REGISTER FOR VIC-20 READ CODE, SYMBOLS

IF (FRE(0)-(FRE(0)<0)*65535(<5000 THEN COMP 5040 CONSCIONES E4

DRBG - 66577 : REW USER FORT DATA ALCRESS REGISTER FOR COMMODORS 64

対域は対対学

RETURN

POKE DIR. O: SEM SET ALL BITS TO IMPUT

10820 OFF\$(CCCE1-25/2015 10070 10040 BIRMOT ROW DATA DISBONIOS ANDR. SUS. 1986-0: ARY DATA ADDRESS REGISTER DONE-O: MEN DECODED TARE ANTOR IAST-0: REW TIME IAST TONE EXTED

15000 ROW DATA FOR IACH POSSIBLE DIRO; INFOR AND TI'S CHEADSWALLING SYMBAL 15010-DATA 0, 'D',1,'1',2,'2',3,'3',4,'4',5,'5',5,'5',7,'7',8,'8',9,'9',10.'0' 25020 DATA 12,""',12,"#',13,"A',14,"8',15,"C' RETURN

Figure 6 - Commodore 64/Vic-20 Sample Code

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0		T	ı P.	1	ų	D	00	-,	Çr	'n	£	u,	'n	٦.	h	Sports.

Table 1 - Knya, Enquericies, Decodes Outputs, and Displayed Symbols

The Nynex Change Card

by Kerin Daplet

technology soiled the Change Caré. This system based on information inforced from City based on a disposable card to cain operated telephones in New York tost suces. Your mileage may vary. 4 relephones installed in one of Nynex's using the Landis and Gyr Type BTK1290the dissection of several cards, and make article represents an analysis of this Nynex is curreally testing a supplement

relephane subtracts value from the card calls are made using the card, the \$5.60, and has an initial value of \$5.25. As dispensed from a renderg machine, coore identical in size to a credit card which is The Change Card is a plastic card

earrying a pricket ree horden the customer from Billed as foreing phone and the card. played both on the remaining is disand the value 1 040 20056

foll of

operations from the central office to the employee fraud, calls paid for up front, such as: reduced consumer fraud, reduced change. and the iransference of some billing benefits for Nynex' has a host of imagios this system

individual telephones.

infermation are encoded Validation bits of the card is a highly reflective restallie of the validation section and extending to information is encoded as the length of the contimeters of the stripe. Valge are enroded as a series of areas of high that all eard validation and value infrared-monsparent ink. It is on this strip strip covered by a protective layer of white reflective infrared reader and electrical high reflectivity area starting from the card and low reflectivity in the left-most 2 discharge writer technology. On the face The Change Card is made from

> apprendiately at the time of connection and relephone it is sacked into place and value to the user. Value is removed converting the underlying area of high readvantic boad. If the validation fails the Change Card is first inserted into a protective tayer displaying containing reflectivity to low and scatting the white will find a spork across the write head those the left hand edge and running 6 card is immediately ejected, otherwise the scanned left-to-right by the phone's equitinoless. Upon placing a call the phone stripe beginning at about 2.2 confinitions high reflectivity. A new card has a value the right-hand edge of the card. When a sean continues until it hits the next area of

leach billing period Differ wasce d m mediziely occurred the phone vacatore maissay rerminated. The until the call is 1000 automorically and sequence, if the performing a readogninst fraud by 第二16年 - 自28 following 200

tampering/damage by skipping over value terminates the call and ejects the card. The connection, and the blocking of 900 bits which have been deplaged or blown system elso protects against card of the hundset from the signal path prior to capture of the card during calls, separation the rest size devices include: physical Other anti-frank measures implemented on card to that of the next readable value out of sequence, reducing the value of the

\$5.25, who knows what secrets the possible areas of compromise. Although technology that would seem to have few currently only available in units of but highly evolved compar resistant validation codes both. The Change Card system is simple

Page 12

HOW TO HACK HEALTH

one) aren't supposed to know about.... owners to do things you (the sweating routine and fle about your weight, you users, it's also there for techs and club keypad and LED display just for the can hack their! They don't have that things than choose some workqut collection. You can do more with these not a stair machine is part of the serebic equipment, and more often than case, It's in a reem of sweaty people weering lycra. Most bealth clubs have backing is where you find it." In this pret running OCP in Robotop, "Good To quest-paraphrase the loveble vice

away in its filmware as well.... place doesn't have, LifeStep systems. Presumably, there's good stuff lacked Stairmoster 4000; I've seen, but my All of the following refers to a

display. ENT means the cater button on will be an EKG-like blip going across the attract mode; you can tell if it is as there must be entered when the thing is in All codes unless listed otherwise

codes you will use will depend on this Hit 107 ENT 4 First, find out the revision, since the

REV. 1.2, REV. 1.3, REV. 1.5, REV. 2.1, or REV. 2.2. REV. D. REV. E. REV. M. REV. 1.1 You should see something like this:

bother with it, most of the codes won't If you get anything below 1.5, don't

off after fifteen minutes.... hasn't beeped and you know they shut get off, you can tell him 'Hey, the thing when Bobby Jac Steroid wants you to to 45 minutes), and ENT again, Then, stairs? Hit 1010 ENT, enter the time (up you're not getting your fair shot on the Changing the workout time. Feel like

time; some poor Stairmaster tech will limits. Note: this really locks in the max your knowledge to protest goofy time Locking in the maximum time. Use

> given 45 minute thatic stay on the Stairmaster up to your Godmode, 97405 ENT. Now you can avoid the evil club's high-furnover setting and time, ENT, system goes back to attract time you just set, ENT. For 2.2 revision: mode, 97405 ENT, system displays time, ENT, system goes back to attract you do this. For 1.5 and 2.1 revisions: wand if your club wants it changed after 1010 ENT, enter maximum workout 1010 ENT, enter the maximum workput have to come out and use higher magic

Here's the code tablet using its 2 digit code; hitting the CLEAR mode. Each character is entered by normal EKG blip used in the attract on your mood. Your insightful really devastating ego-nuke, depending they can convey your deepest thoughts button gets rid of an incorrect character. including spaces, and will replace the commentary can be a max of 128 chars. on the whole body image issue. Or a is the fun stuff. All those LEDs can be simulated terrain or blipping a take EKG; used for more than just displaying some Creating aesthetic commentary, This

M+62	1947	X-60	J=59	=58	H=57	G=56	F=55	E=54	D=53	C-52	0-51	A-50
2=75	Y=74	X=73	W-72	V-71	U-76	T=69	\$=68	R=67	Q=66	P=65	0=64	N=63
1=21	[=20	9=09	80-8	7=07	6×06	5-05	4=04	3-03	2402	1=01	0=00	Space=76
		:-32	heartedt	¥=30	=29	=28	-27	}=26	%=25	.=24	\$=23	76 +=22

live years of therapy. So, be a good insecure with themselves into another chasen message could push someone Remember, given the location, an ill-ENT, enter your message, ENT. To program the message, bit 7607

Editing the message: 7607 ENT

message. CLEAR kills the rightmost up/down arrows to seroll through the coaracter on the display, and anything

ENT. Not too thrilling. everyone to be (higher is unluckler). depending on how unlooky you want numbed victims. number between 5 and "DISPLAY ODDS" is displayed, enter cause amusing confusion in workout. fun as the message option, but it can standard "You didn't die!" message ENT. Slot machine: this replaces the through a session. Not nearly as much you get when you slave all the way Turning "teletype" spand off: 44 8089 ENT

brings up the massage. Use the you enter is inserted at the right.

still stored in memory though, Shutting message off: 2123 ENT, It's

Turning "telatype" sound out 40 Turning message on: 2121 ENT.

Turn off slot machine: 8089 ENT, 0,

Cover your ass; 105 ENT. This wipes

tallowed by mail * owner has of proving you have curiosity. the memory, and any chances a club Miscellaneous stuff: (all codes

\$121: Display current slot machine

9760: Change over to Imperial 7703: Cumulative hours and floors.

9761: Change to metric system. up arrow, 15: Display test. 107 ENT 5: Displays settings.

store at a busy mall? Celebrate your owners handle the extra business you Crisco Raus while you watch the nice public debut with a core dog at Frank's opinion than a trendy health equipment So, what better place to get across your will always be hooked by a lightshow! becausa "Heyi LEOsi" - Lac Customer prominently at the front windows Many of these stores also display them carry higher-end toys like Staidplasters. many health equipment stores now As an afternative to health clubs,

share tales of hacker adventure, their desire sharing. While it might sound nauseating, BUT ALL OF THAT IS ABOUT TO to help others figure out the answer, and For nearly two years, the 2600 Voice BBS explorers, their quest - to search the earth has brought people from all walks of life for strange phone numbers, their goal - to together in a spirit of cooperation and you will become part of a vocal band of (10288) 0700-751-2600 their purpose - to achieve all four it really can be fun. By dialing

HOW TO HACK HEALTH

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M=62	L-61	X=60	J-59	3×58	H-57	G=56	F=55	E154	D=53	C=52	8=51	A=50
Z=76	Y=74	X=73	W=72	W=71	U=70	69-1	S-68	R-67	0486	P=65	0484	N=63
* = 21	r-20	9-09	80=8	7=07	5=06	5=05	4=04	3=03	2-02	1-01	0=00	Space-76
		· · · · · · · · · · · · · · · · · · ·	heartra	7-30	-29	- 28	′±27	7=28	%=25	,=24		76 +=22

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brought in owners handle the exits business you Crisco Hays while you watch the nice store at a busy mall? Calebrate your opinion than a trendy health equipment because "Hey! LEDs!" - Joe Customer public debut with a com dog at Frank's So, what better place to get across your will always be hanked by a lightshow! prominently at the front windows Many of these stores also display them carry higher-end toys like Stairmastors. many health equipment stores now As an afternative to health clubs,

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SOFTWARE PIRACY Another View

by Roberto Verzola

Neswork Features agency of Penang, Review, courtesy of the Third World Reprinted from the World Press

friends and colleagues is called piracy. commercial software and giving it away to companies, they are perates: Copying terminology of Western software other friends and colleagues, la the and colleagues who, in turn, give copies to give copies of these pregrams to friends have proliferated around the city. They the computer infletin board systems that programs from computer shops or from Many Marrila computer users copy

parasoment they roundly deserve. pirates get their just due, the audiences endings, when these good-for-nothing steal, kill, and plunder. At the movies are a mean bunch. They are villains who invariably appliand, for the pirates get the I have seen piezzes in matrices, and they

be treated like one. It is no fun to be called a pirate. Or to

purate our best systems analysts, our best pirate those who write the software. They pirate software. They pirate people. They pirating themselves. However, they do not the Philippines. Quite a number of them, I come from or work for Western seftware ongineers, our best programmers, and our would say, come to the country to do some how much they are Josing from piracy in pusies and parhaps make a bitle study of firms. They come and visit this country of best compater operators. I have seen a number of people who

second dector would cost another \$10,000. \$10,000 to train one doctor. Training a individuals. It costs our codatty perhaps pirating intellectual property and pirating There is quite a difference between

> would cost us as much to make each In short, given an "original" doctor, it "copy" of the original. Training 10 decrors would east \$100,000

get the services of a doctor in time? Hillyands have third because they could not away headreds of our doctors. How many doctor. And every year, the U.S. takes it decies 6,700 Filipinos the services of a citizens. When the U.S. pirates this decrea, train a new doctor. The Phillippines has approximately one doctor for every 6,700 resource, for it takes more than 10 years to doctors, they take away an irreplaceable When the Americans pirate our

Americans to use. When the U.S. pirates the original and leaves nothing believed. leave the original behind, Instead, it takes our doctors, it does not take a copy and use of the program. It is still there for have we denied any American officen the Lotus 10 years to replace the peogram, nor imeplaceable resources, not would it take the program, they have not stolen any or third copy of it. When Pilipinos pinate costs practically nothing to make a second developing its spreadsheet program, it Whatever amount Lotus Corp. spent in What about a computer program?

countries for a long time. They should be U.S. will raise a big row if we pirated this malignant form of piracy by Western case. We have been victims of this developing computer programs that can become even more important in the future, by a benign one. This piracy debate will the last to complain when they are affected piracy. Firsting doubors is a malignant We can say with some certainty that the minute what goes on in a doctor's mind because agranced countries are now Copying software is a bunign case of

> automatically connotes immoral action polemics against the Third World. on the part of the copies. Thus, in the copyright or patent laws of a couplry, one unight be charged with violating the among advanced countries, particularly "piracy" and "theft" are favorite terros Using these words, however, from the crime of theft or actual puresy but this would normally be different accurate descriptions of the art. Legally, emotionally laden, but they are not very "theft" of intellectual property are In truth, the terms "piracy" and

a sense of inanocality to the act. This is market. Notwithstanding the fact that not to imply, of course, that countries from simply being commissions on the bave other important attributes, aside intellermals and intellectual property likewise be used, if one wants to averibe The terro "piracy of intellectuals" can their intellecticals. Both

> personal and professional advencement doing so. Perhaps the chances for are better. Perhaps the environment as incentives and entreaments, these work for them through various the best brains of the Third World to advanced countries normally encourage home countries, and so cal. Perhaps they were persecuted in their temperaments and predispositions. more conducive to their own intellectuals have their own reasons for

for ourselves? deny a good friend if we can also keep it than what you started with? How can we can give things away and have more remember the miracle of the toaves. copy of my favorite program. bread and two pieces of lish to feed Indeed, how can you be selfish if you 5,000 people. Every time I give away a his apostles had only five loaves of minicle of the loaves, when Jesus and The Christian Bible tells of the

those of you on the net, there are now two DIFFERENT projects that are ongoing. For YOU'LL NEVER CATCH 2600 RESORTING TO CHEAP GIMMICKS LIKE MULTI-PAGE ADS. We prefer to devote our pages to the outlets to vent your hacker fervor.

sputters and turns red, you will be able to easily identify them as converge on internet Relay Chat Channel "#2600". If you're on the On the 26th of each month, hackers from around the world net, ask your system admin how you can access irc. If (sthe "hardass sysadmin" with no sense of fun-

Ongoing on the net is a newsgroup called "alt.2600" where hacket issues of the day are discussed from around the world. If you're still on speaking terms with your system admin, ask them how you can subscribe to this newsgroup. If they begin to convuise and speak in tongues, it may be time to consider another site.

Spring 1994

2600 Magazine

coping with cable denia

by Cap'n Dave

There are three forms of derial technology in common use today. The first is the simplest the negative frap. This is merely a filter phosed outside of the home (usually on a pole, inside a pedestal, or in a box mounted to the house) that blocks dut certain channels. The problems with this system are that a capital outsy is required for the homes that don't pay for the premium channels, and that someone has to come ruit to add or remove services. In addition, a convenier may be required for non-cable-ready equipment,

These negative traps are cylindrical in shape, about two indress long and one inch in dameter. They are threaded with a male "F" on the connector on one and and a temale "F" on the other. Each one may block out one or more channels (always configures though), and are channels (always configures though), and are often used in series. On dramats where these are in use, your TV will show nothing, or a faint, "srowy" picture.

These could be removed, but the cable company will eventually notice and possibly get upact. Before yet, aktiently through, if they were then replaced, the cable company might never notice. A clever person might steel someone else's traps to experiment with. Newer traps are filled with epoxy and will have to be diffied out before being re-wiced. The experiment will probably have to destroy a few of these to get the technique down.

A note for opertners dwellers: the traps for every unit in the building are usually in a box somewhere on the building are lessed in the building. This may for may not! have a lock on it. In any case, the next time the cable company comes out there is a small but finite chance that they will notice all the traps missing on one particular unit. To evoid this, drill out and newle the traps, or remove every single trap in the box. Before yet, share the joy with some ofter buildings. This won't work for long, but it downs your tracks.

In the old days, the negative traps could be fourned out by attaching 126V AC to the cable, and sippling it on and off a few times. Do not do this? It won't work environe (the traps burn out and no longer pass signal) and if a real obvious to the cable company what happened. Motified coexis hand to hide. Also,

> it sometimes catches on fire. Kinda hard to explain to your insurance agent and/or the fire department.

sharp details. Cable companies often get complaints about this, degradation of the picture, especially the blocks out even more. This results in some some of the picture information, and the litter However, the interfering carrier obliterates dustomers who are paying for the service. negative trap, described above. In this case of the bear/90R/TV. They look just like a by a "positive" trap placed inside the paying the video and author carriers (at a traquency the cable company only has to shall out for dustomer's home (threaded in line on the back 2.25 MHz above the video). This is removed intertoring carrier, to those systems, a "(amming" carrier is placed halfway between The second common denial method is the

Those channels (more than one deniet method may be in use on the same system) can be identified by the loud schooling noise emitted from the TV. Also, the picture should be fashing and/or full of lines. The actual jamning effects may vary from TV to TV. An article in the Spring 1993 Issue described a crude method for blocking an interfering carrier. I have not med the, and have no idea how well this will work.

never pirate cable. It's a man's game. (labels, etc), this will probably work, Especially knocked it off the top of the TV. As long as were to "socidentally" trigger one of these, it conveders have "booky traps" in them that an earlier writer Indicated, not all brands of if a female swapped the box. Women virtually would be prudent to return it and say the out non-Pioneer boxes are so equipped. If one Pioneer), but probably far less than half of activate on opening. Some do (especially competition's scrambling scheme. Also, unlike brand is not likely to descramble the picture, and lease the customer a there are no other ant-tamper methods in use Not all convertors can descramble! And one converted descreptibles to recover the picture. The third method is to scramble the

Strambling is done in several ways. The most popular is to amplify the vottage of the horizontal sync signal. This prevents the TV from knowing when to draw the electron beam

back to the left side of the screen. Thus the picture "breaks up". Usually the audio is undisjurbed. The cable descrambler lowers the voltage of the sync signal, and the TV again looks.

Now, about converters. These boxes come in three travers: non-addissibility non-addissible non-addissible descrambling, non-addissible descrambling, and addressable non-descrambling converter is just a converter in tunes the channels that non-epitic-ready squipment can't tune, and converts them to channel 3.

The non-addressable descrambling converters can descramble and tune channels. But they must be programmed by the cable company via some contact method (i.e., not brough the cable). They may have to open the box and program a chip, or use an infrared programming softens.

The irack explicated (and newest) form of conventor descrambles and is addressable. That is, the cable company can reprogram the box over the cable. They will die, at least temporarily. If out of from the data on life cable. These are the only kind of boxes used for pay-perview.

or at least one way over the cardo. This means cameras or microphenes in them. Cable not "spy" on the outcomer. They don't have tray every time you switch charmola.) what they are watching tonight at 7:00 pm and watching (a's mote like asking the box, "Sea end aidead tenes rotteem of pears semicanos phone lines. Both of these schemes are make the cable companies pay for using the move into the comb business, and as they by to In popularity as the phone companies by to data back over the cable. This system is gaining the night. The more advanced systems send the phone line and a cass in, usually in the middle of return is the cheapest. The box is affected to the the data back to the cable company. Phone over the telephone) there are two ways of guitting (where the movie is bought from the box, not aboad. On systems with instant pay-per-year that the company has so way to tell if a box is vest majority of cable systems are one way only. you to warry about that sort of thing. In fact, the operators have enough trouble getting a signal to call me heck." The cable operators can't find out Contrary to popular apinion, these boxes do

The bests of these converters vary from \$50 to \$50 for the simplest up to \$150 for a up-of-the-fine addressable unit. "Wide open" units may often be purchased on the black marker. Check the axis in the back of Foodar marker.

Sciences or Alufs & Yorks. (You do subsorbe, dan't you? All hackers should. Call 1-600-763-4624 now.) Those are also good sources for replacement remotes, in case you have your Remotes coat the cable ecopyany should \$5 but they offer or barge \$30 if you have end, in addition to changing a couple of bucks a month. Talk about your return on investment! Pagnember, though that it is illegal to own a someoner box capable of notewing services to which you are not entitled.

Some "legitimate" cable companies and actually Matte, owned fronts for obtaining consents. Stories constantly circulate about systems with 2,000 customers ordering tens of thousands of boxes. These conventers are then diverted into the black market. With the government raising these shops, it may or may not still be safe to order boxes, though remotes and probably still DK.

Positive traps rain also be purchased from some of these suppliers, or can be built using parts from Radio Shack. Build a high order notch reject filter, and tune it to: best picture quality. If there are several channels on the system blooked by an interfering certiar, a clever person might build and optimize for buyly a single litter for build and optimize for buyly a single litter for build and optimize for buyly a single litter for build and optimize in payensive considerations.

Most converters can be sponed easily, even though they often have some sort of "separity" screws on stem. The nastisst one has ease was a head that is slightly east. You will know what I mean it you see one. These can be removed by heating a plastic tube and pressing it down over the head before it coals. Now you have a toolf Pens make good sources for such plastic tubes. Other kinds of security screws can be removed with improvised tools, or vise-grip pliers. Tools have also been advertised in Nuts & Vats.

Cable TV companies do have the shifty to "lack" down the cable and see what equipment is attached, and what drannel you are watching. However, this requires skilled operators and expensive equipment (high bequency spectrum analyzers and TOR units) the done at the house (or pedestally pale, etc.) and is not usually done randomly. This snooping can most likely be blocked by patting an empitier before anything you don't want them to see. They will see the amp, and nothing peat it. Higher quality amplifiers will do a hother job.

Happy hacking!

PRODUCT REVIEW

2112-455 (008) (金五) 25年58年 OKI Telesom for: (4(5) 326-4673 Merdo Fark, CA 94026 \$125, Available for OKT 900 Interest: Info@ev-com voice: (415) 326-2060 Network Wasards

Noview by Mr. Upsetter

manual, and a short callular tutorial. disk are a user's manual, function library write your own programs. Also included on the phone, and a C function library so you can cellular exlephone from a DOS PC via the RS dalled Network Wizerds has introduced an Experimenters Kit (CTEK) consists of an 212 port. Their Cellular Telephone interface that allows coutred of an OKI 920 system is a little ensier for us. A company received so much attention. Now explicing the interface, four DOS executables for conrolling backers. It's no wonder cellular relighony bestelephones, and computers is some to interest Any technology that combines radio,

connecting a microphoge and earphoce." cable with a specialized plug for connecting to black box with a DB25 connector on one end. A interface also has a mini stereo jack for from the OXI to standard RS-232 data. The PIC16C54 microcontroller which converts data the OKI is an the other end. loside is a The interface isself is contained in a small

alphanumento mentories. The TEST EXP transmit and author functions of the phone. You program allows you to manually control the to read, write, and edit the phone's 200 cellular system.) This program also allows you and group ID mark. This information, along instell paging channel, access overload class, consists of a relephage number, system ID, (A NAM of Number Assignment Module, functions. The MENULEXE program allows CIEK allow you to perform numerous with the ESN, identifies your phone in the you to change any of the phone's five NAMs. The DOS executables included with the

> you to pross keys on the OKI from the compared The KEYCON.EXE program simply allows while displaying the voice channel messages. allows you to place and toocive a phone call all the forward control channel massages, it also you to accompose the paging channel and displays CTEK identifies. The TELEXE program allows receive nadio as well as set the audio source to also set the volume, more the transmit, or cheanel, SAT, and transmit power. You can the emplood, sounder, or external jack on the

program which had the following capabilities with the library. I wrote a cellular scanning and KEYCON.EXE are provided to get you certainly expand the functionality of the phone. msty, I found it easy enough to write programs started with the CTER Junction library. Although my C programming skills were a little your own programs. Sessee code to TELEXE But to do the really fan stoff, you need to write The programs provided with the CTER

that charged and listed to the call. hestages. If a roice channel is an igned, go is Stander a justing chancel and display the

Since voice charmely and lighter to across

State OMNICELL changels and tipres to

charmel messages. While distancing to a call, display the voice

Automatically follow handofts

Automatically muse the audio and step Decade DTMF, change the solitore or cardio

monitoring which the coll is released. Other fonctions in the libeary allow you to

had several other ideas for programs, for Overall the function library is quite versuitle. I functions, and read the phone's memory signal strength control transmitter and audio send reverse channel necessages, get the received

pushing channel messages, calls placed and Certain cellular phone numbers. You could be nest characters used, once received, cod dansaious, DTMP digity allowed Log all messages and earl information for

> 等の記憶性は後の時代 band by scanning all chancels and recording Cerate a "spectrum" display of the culturar

physically math a plante as it moves from cell With a map of cell riter to your area.

wide never les you sond a boges ESN you send reverse course) channel mossages CIEK. In fact, the filtrary function which lets cannot change the phone's ESN with the petreoric author than as a tool for fourt. You is bear suited for monitoring the collular opposed in a few thousand dollars. The CTEK enforcement for a few handred dollars as comparable to the ones designed for law put topolibor a great collisies menitoring system 1300 year if you can find end. Still, you could It goes for about \$400 to \$650 new, perhaps OKI 900 isn't the decapest place in the world use the phone to its highest potential. Also, the nawork white playing with the CTEX. But this The executables provided in the kir restly don't CTEX: you need to write your own programs. bit isn't for every eac. To get the most out of the I had goest ton exploring the cellular

Network Wigards promises a syntion for the ic's concently only available for the OKI 900. product, both in bardware and software. While Overall, the CTEX is a well designed

cellular inouitoring program Sample output of my

(40%) 671-19XX page sec=3, dec=2 $(93.5).264.66XX_{1}^{2}uge.soc=3. dec=2$ (408) 452-01XX page ser=3, dec=2 (415) 517-3288 page sec=3, dec=2 Separating for continot channel (860) 892 - 2200 reserved (13,6) xx + 3, dx + 2(409) 409-0383 jaga soz=3, don=2 (800) (680-1)336 reserved (13.6) (66=3) d66=2S00-15 A00-12 (310) 701-2332 konsuktasansar ngcan Received Signal Strength: 40 Monthshing Control Characte 0337 Systems B Mountaining system is Monitor system A on B? (phone numbers have been masked)

assessming channel 526 Principles den en Englishe der Jerus

(\$10) 914-4010X page 270-3, date=2

(2,13) 500 44/01 chan=)26, wasc=9, sec=1,

Decading DTMP. Prior any key to insure. 34473554706

channel: 0379 RSSC 53 (200) 323-23XX page soc=4, 4cc=2 (415) 971-86XX page sec=3, 45c=2 Charles Charles Associate DMN/DELL Scale Presidenty kg to secume

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THINKING OF MOVING? DID YOU MOVE? ARE YOU EVEN

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FOIA facts and fiction

by GaleDanerr and Shrika

Coggress created the Fraschern of Information Act and its sister, the Privacy Act, to guarantee classess stoness to government files of lancers or concern to them. This act is a law! This is supposedly a fixe country and therefore information should be readily occasioned and copied to paper, but as we all know, some government appear closus accum to have a conclined and the privacy closus accum to have a conclined to the privacy closus which there middels, and the privacy that go with form, you would be know possibly how to substitute our request.

The FOLA is intended to apply in any government agency. It does not apply to Congress, Federal scotts, or the Executive office. There are also exemptions for the Executive office. There are also exemptions for Utacle Sam's banks and respondents held by the U.S. government. While the set is worded to provide search to approprietable, this term is not really defined within the body of the Bos. The courts have, however, defined this to mean documents or other definitions bearing unarrieds such as photographs and computer mass, within both the presentions are solden defined that agrees, within the finishing permisental control of that agrees, Any U.S. either, permisental resident allows, family nationals, congressions are attached associations, etc. (you get the giorates) can make the request.

information falls under some sort of exemption. They gre up the grade. Also, they cannot just claim that the exemptions are discretionary, not mandatory. You will they will try this load of manute on you. But just entercement in an ongoing investigation. Semetimes the blagle, where it may interfere with have response within a month to via works. There are a few CACH. QUODES SHOW HATE superstant has to look at the mater, and they usually seasily get what you want with an appeal. Then a remember that if y a poor making that denial and agency personnel, trade secreta, oil well locations, and but these are things like national determs or security instances where they can dealy the regions compressly. offices, etc. But executly you should have some son of where they can claim a need to get hies from field have 20 days to acsiver, In all cases, there's a Carch-20 working days. If you're not largey with what you got you can make an administrative agreed to which they The Accordance as appropriot respend within ten

Now what does this joint? Well, the Aut provides for a small fee to be charged for direct costs. That's depring folds, not the man hours involved to maching the purity for the man hours involved to maching the purity of the man hours and the provision that it is that man beam. There is even a provision that is, it has a man beam. There is even a provision where these does can be wrived if it's to the public's best interest, but let's face is, they are mad enough at gradient the provision of the public is best interest, but let's face in, they are mad enough at gradient the manufacture as don't expect them to wrive the face units is you can get putty oresines with worth and make them betteve it's in the public interest.

New let's get down to business and make the

request. As first planes everyone may think that's easy that possibly some of us have more colorful background than offices and want to beget must background they office and want to beget must background agency or becaut office. The follow foreign possible grant of possible grant of the possible grant background for the color foreign some foreign and possible grant background background foreign to be said grant to grant background foreign and grant to ask, then give their local offices a cell and grant to ask, then give their local offices a cell and grant to ask, then give their local offices a cell and grant to ask, then give their local offices a cell and grant be added from a physicians. But the simple feat is they just don't have the mangagest to investigate you just because of the cell.

Again, the Act is rigger above the request, assing that you must restricted that they wave records being sough. This colly means that they wave records being sough. This colly means that they wave records with a that it filled a position of the retroids with a minimizate of case and either. You do not have to explain why you want the information. Don's let the aid you then you do? But loop in mind that the more precision will account a transport the majority that it is get a bomplate suspense furthers they you as like the Secret Secretar is doug with the Pereignan Cop Mall crip. You should try to follow a basic request strategy.

Limit your request to when you really want. Ded't yus say "all dies relating to..." or you are giving them an entitue to delay or soak you with copy closs.

State what your request includes and what is weatherful.

doesn't include.

Be specific about the search logic; one "and/or" to cover all the bases and not give them an excuse to manipulate poor respect.

Decide if you want to write to a regional efficient the central care. Recent local investigations would probably be held in a local effice.

If you know there have been newspaper accounts.

that also that These Covernment gasks can be prove through and so should you.

The best of boards you will as the names of covering covers to filtered seasons wherever it is one

of specific goods (afficers, agents, whatever) if you know them.
If you are taking about yourself, then make sure

It you are salon, about yourself, then make sure you give as rouch identifying data as goodble, i.e. Saxial Security number, whiten's blenner number, date of both, place of both, esc.

Now anyone can write a littler. And many people do. Not that they get what they want. Set with a little effort, you will subset a mesteplace that will moderate them, are then that allow them to tigate you. By all mans type in there is likely a copy. One the stanton means type in the in Reep a copy. One the stanton freedom of information Act. 5 U.S.C., section 553. If you are usking for personal filter on you, also don't he privately first yound in height.

year leave with time trees. The end of each, model them that you know your lights. Work: Let "me know that of their netpone is not satisfactory, but will be appealing and the flow that they include their name and the appealing and the flow include their name and the particular of the present appeals would be directed on. If you are requesting personal filter, you will need to polynome requesting personal filter, you will need to polynome request meanithed. Once back or real cubic office and that for you, Secting them deed you're beliefed to may time for you. Secting them does have been they put done blacking out at the near soif. Decause, while they may black out names, done, and places, you wan usually figure out the basis from what's left your. You also might want to ask that they custed you will be estimate of five if you think them's period to be also of that involved.

Now when you do end up with a broth of pages with most of the text blacked out, that is just one of facin RS an argies and you should appeal. Appeals you charlier than you think. About if you do not get an answer by the came you think you should, then where again or call to be them hand that you facilities are should be a worked about the your violating for time limits and faith by law.

They may chim that materials do not crist when in fact you know they do. True, they may just be

playing you, but most often they are so distigatined to that you will need to be even more agencial than you wishnessing of each other that due to mismesting of each other that due carry on their mon. If the investigations said according on growth unity not even exist. By appreciate, first names of poors, dates, other exist, and (Winter, 1902-97), and we've methods of Secret Service of (Winter, 1902-97), and we've methods of our of fer [30] shall offices at well.

If you are with meeting tree tracels, they write your district Congressman or Sometr representation. There we seem a couple of Congressional monocillous companishe for consensing the levelal workings of the region.

For more information, simple forms, and lots of help addresses, there is a horizon called "Using The Intection Of Laformation Act. - A Step By Step Guigle" available from the Cester For Mulicial Society Studies, 122 Maryland Aver. Weshington DC 20002 for only 32. They have some what platfor informative books as well on universal searcity and successiones.

only just be Happy hundry!

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Spring 1994

LETTERBOX

Comments

on a few azons found in your Winter 1997-94 tigue. improve compared stately, I mostly I would compare As an writing other without sets 2000 strictly as a root to

Living near a sucher power place, are of the joyn is the these traces and multipoutly set off the strans is beyond reachillan being pressed. Why commone been trespected bettern on the from When the feel began, each resultation room with labeled accordingly, with told and reser department the took had day revealed a line on the radio with the shoulding of the streets. A trip to the focal police Emailineting some done groups which second to concide behald, the local saw enforcement agency was movedly sixed use. One day I happened to be distraing to was present in sequence, followed minutes than by each the second when the tests were taking place and, to see "services" which use sones to activate equipment, the Concerning law spersed equipment damped other

Entirely executions one ever caught on. of the lab existenc's administry which stepicion in the contractive rate our birds pravelager transportion from past we were seconding their ID and password for later use. Of reminal was died and by audien, Little did they know to began and, when they did not specied, would figure the terminals and the composite lab. The students would alternate to strating a legen street, and ruining it on one of the competer scorce success by writing a CICS and service partimes in college was taking advantage of legimest Concerning powered processement, one of con-

to their excress names, and it soot the ledy her job. Supposedly, in cost the company hig books to switch body tickets using her work address and phone nameer costoner and sent a \$5 pix comments. Along this sump petting the service switched back to the old provider, ine, I beard of a lady who folled out one of these raffic opside was that after complaining to Buby Bell and service to brasel XX. In one sealty a shock to got your only form. Unformately, Million in the fine prior was a ATAT, we were treated as a finder long distance phone bill and notice a new long distance provider. The statement authorizing the charge of your long distance some other expensive prior for meanly filling out a ties began appearing in necessary offering a free cook or their services. Sittle boxes with pads of raffe tickets using fixed to take their customers. Several years back when sharpstive long distance providers began to offer Eved telephone service previous are not beyond

queue. For these infanction all princip, jobs go into the JEM mainframe compiters at college was the output exactible. One of the areas, which was fusion that waiting respective printers or other areas at they become temptionry sterage, where they are routed to their Another bing we discovered in our adventures with

> the attorned of sulpre-either! Our hell-dog leb assistant wrote some had code which generated 17,000 pages of of output, filling the carges queue, I am not exaggenaing the system begins to slow down and finally stopdirected to the peer's terminal. Linkers the operator stadeot in do it!) which will loop and generate pages upon effect is to write a program for convince a leginary 152 colored acqual before the system of of oil and then you is the hop projects less promotes the stands of pages processing. There is sublimb to place for any output to catches the problem, the job beeps on numing. Sudders'pages of earlyin. Not wanting to write paper, the purpose is radius loops - a big jeb with beginning starters on the system for partities resonal such as programs suick in operator receiving batch jobs and ministering the comparer program error liking and cooper. Suppresally there is an and is processore of a problem until someone colla in. The gotten. Useally the exercise is away from the element Tate for an example to an addition of the ansignment from the later of the later of

Hacker Understanding

Mary 2000

made to suffer took gially, why the they invent mental literally spacing but the word. Ah. we'll if we seem all round thence. They always say "lanker" so if they are strong as a weindo who goes to hacker streetings by rey course, since I started going to them. I have become rifers. I has easer into contact with it ideals to the meetings in my men, which are always excellent, Or books by least toolstone duries give me whenever I hay and I must commend you upon another first class deal painted up your Winter 1993 St wate if here the

the things that cookes your magazine refreshing to de you, Bully desire to learn any more. That is one of make free phage calls and yet pineled games. There seems these who are nothing into the told new are only in this partennist. What arrays are so no end is the most of ferreuted to and the first things to ever higgers to the LLP Year journal is one of the magazines I most look

Arrest recycling so long or we don't join them Butter he lighter stees or attropy to much stees on our Soldens, and represent while just worst on each other. the fact word of the state continue and for which a new speed our browings. As we sill know, there are bide There are both of an who are in this to beam and

Novell Nosing

Dear 2000.

password was wrong when you what to degin it is wron Newsels and letting you know whether the over 20 or the several readers who were concerned abort Mayell In your Agrama issue I noticed that there were

> ass with a many "Access Danied near diseases" is to open Since England the woods password, the system kinks are lendary files and season for my user ID and password takes more time because the program most access the east my passwerd windy on purpose. What happens? Ty to logic totag tay our ID that I know is valid but I on this system have three objet (alphanumerical) uses 1D. Netward 40. All the straight are #5% Most of the lagratakes only a second New, it shocks my proposed. This The softwage ofteness to see if my upon ID is called. This The others are Separateur, Good, etc. Arguan, Jack say I find what you see looking for. The network I use rure the system made to the user IDs you type in, you day sser ID or not, but it you dook a did to prore closely at how that the system does not tell you it you are using a solid

the program to return. If it takes a long time to return, find. I can't come this will work on all provoces, but it user ID is not relicit and the program should relate almost to use and a stupid passwood like "apa" so a file, then versions worked on mine. passward protected. You will be surprised how many you petwork in the event you find a user ID that is not instantly. Be sure you technic a line to tog off the then chances are you're got a live son. If not then the darting the Togin program with a Jipe like have Edied me and almost instantly. By Jr. You rec-"LUKHNAFIT ENANE XXX". Time fow bug it index by and number combinations by saving the less ID you will where a sample program in BASIC that will be as latter and exit. Fixl the over 10 been lookeed, Name would denot present, describe the site halond was wrong. writing gassword to book about four waxwels to look up no user ID's My tests ID was valid, so when I entered the to kick you out then you have the key to coding valid Now of you look at how much time the system takes

Cettonwood, CA

Nynex Negativity

Dear 360%

all you get. The soller having you a message also pays system always for menticy use and for bare rock call messages from a PBX alystean at world). This contraptous ordered Mynes Wolse Mail (so I could access my for a rail, so I see it in clarging raige for each according you make he weenes your messages and each increasing Lirectably moved to the 19009 section of 242 and

ushmited service for the morably sendes charge plus fire theomist, salls, releasibles in the pelighborhood will per have the logarithing of leading Nyoda during the number of I was rold selections would get 30-day policy of a But because 10009-land has wining that does not

drop the service before my 30-day fine (rial is over) change in the service to per-estimate the first probably

Apart from the cost factor, there are privary and menagen indend of an arrestring machine is beyond us They are book would work hymnes up handle their Happy in 212 Land

Dear 2650:

ON COME. 50 SHR OF COMPANY ARM IN 1970. The built is within in their pointing primary by aging this service, it will picket dependently traces at long as people than buy any

Reader Abuse

DOMESTICAL PROPERTY.

employee about the location of 2000 has the next time to came on any wase in the same phase. where I had to led mountain you one I complianted to an 2000. There were at here for of them hedden in a rich had exother mayorian. She pulled out a list and told him ways from far 18 man came up to bed one saled if they lead and pretended to be looking at mother lead a little have our suggestions thread so I men's find ent'. I supped "yes" and where so find it for one pure took that I female The person in charge said "Lubu" know" and "We don't Noble, Lasted their if they substribed to this magazine. reases why this politication oxight and will well to become bookstates hade it. I get my 2/900 foom a book Barnes and "Bookstee Trouble" in the Autumn issue, I think acrebin Ubis letter is in response to the factor felled

dade. Dises serpose lenow any? Turn interested in test toop analysis for the 200 step

Sysop of The Office BBS Guy Milled Best 1000/11/2009 1000/11/2009

(sad a hocker board but hockers are welcome)

something in the 1800 parties. they and exist our there, also exactly probably be Eighten compress of the first place. Regunding hope numbers, magazines. It about he interesting to find our will stop step states that first competited to shipping at debinal other Please for an know the exact names and bivalines of

Duestions

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Cortlandr Manar, NY

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This med is in notenance to up old 2000 article that

to generate it societains to states an answering mathice with a three digit code? with the sequence? And if so what would be the formal digit costs. Is there a formula that was used to come up digits, the 191-digit string is necessary to guess a two consections complete his constitution of the c sintered by acatelianes. Assuming that we see dealing with a sevens emiles for two and three digit remote access had a 101-digit respected that could be used to remotely "semi-senan crawering mechine", one that listers to only access an answering mortiline. I have a question about

Levie Chian

When we get it the my power in the power in the

exited the world be mice to be able to waste the car daily. adjumplic car washes at gas sizneds, where you enter a Has anyone figured out a way to back those

Randy Kamone

The Dark Side There are just so carry fairge to have there days ...

the whore I want in read the. Can henyesble intentions and do damage or steal from in my voice and system (or espene tive's) often with imp One of my higgest problems is thepting in expensible ortailed of large PBX's, many with volumental systems right to explore my system for each for anything other zan. They may have a night to know, but they have no know, I don't dispute that smill they shad piking second the pressive that these why want to know have a right to hockers and this up, out of my business. You publish as and keep up with the enemy. I am responsible for a thread your publication for only one meson and sy

rather have my technicians doing productive early. to at the tase of thorsands of differe an hour, I would this might discover them and rought potentially seed them features we would like to the are named cell becase a We spend time and money securing our systems.

the side of inemonability to repeat the control strappy information about born to get believed the lacked days. Office you cross over the line to and how it was done by the perpetusion in enough detail the abuse you publish are reports of trimes committed useling that it can be done and gotten every with Many of publication. You windows (and implicitly encourage) his to be educated in how to achieve his religiously by your largery on his mind. Unfortunately, dois some loci is going Rico in his place because it is obvious he only had In your last injury, you put the name and those Puerty

offerd me (and others) and step doing what they do. I faire, fairves and leakers everywhere will discover they won't have to waste time learning my gradent. The world thanks for lighting. I am some if you publish this

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think that ignoring what we say or heaping as from souther it will make a containing amplication go small present their houseing series. Themselves, too many The information we prime can be used by some people to can be missered. It would be a very sector presentated to prealous to out of the highwester flow because influencies which we've fresh doing from the start and we've not The print protect of Man branch and and and another being by the

The Far Side

Diar 2000

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Notice to cuttingeous rates (which I in also apposed to) or such behaviors!) I know the Alternatives are set it) pay from service and lives made more difficult decarse of wooder have many pay telephones have been semoved All the while emistaining its "placetite decidability". If become a party in your scheme to defined the telephone charges, it are even loss pleased by the devices conjectly in any paying for the recurred over the identity of the caller while in centery encouraging the earlier to Osketsiky tais was doze to be informative and helpful to lengthy origining message on its environing machine. manipulation by 2000 Explor to 2000 leaving a very White I would satisfied with the exceptant cates Nyora. fourth issue nover arrived. I misd cathing your inflicenmultipled issues when noticled. 2009 weres did. The seceived to much as a greatened much less any beloner the on two argument reconstants to request your help. I means service. I wast to point out that refor inagogines replace this mediation can be attributed to one wooderful posted enreadable. While I am away that the responsibility for ted were in body massing that they were aloust pay up for acet year. (If the those somes that did serious issues of 2000 where the last two issues reminded the to missing asset I did Reserve receive there of the foor value, which several more should be used in you at 2500. station several months father with naturally a different information to it never arrived and my subsempage from my headwriting. The issue with the CNA a been printer and a very legible form to askid sistlineen er descripcion begin with the above demicrosoft igon, I need on my taset printer in which I requested that my postal mercy reductory return whitesy and a new printed Would appear in the past tasse of 2009. I sent 2606 a 10 S tunder. You said on the air that the telephone sucriber the show you mend and it conjunctions! CNA telephone publishing 1666 whee I amply a broadest of Ribbs. On Over a year ago I was reminded dam you were said

> Just an exacting stacking to be specially year calls. have left available before the Noven exerting message measage about when an actual furnan being is present and meanion of province is ever made on the 2000 outgoing ther the streets after you have disparalled this inter. You highly compare massage in the entraceast time you zedynase. Writing to you is printless and only states to and perform impossible and up to leave a collection on

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personaled the docts as featives you are able. Discussing a single presents from both easts as you move; if: at this letter will end up there; there all there's redding chaigs on WBA1 and any subscribe turbern either. A copy makers and common of you seed so moved other you have show or so get-like it in 2000, I suggest you do so as inmy experiences. In page 300 decide to need this on your recovered others to follow any example: 4) will them of 2) lister as you as my Walkman whenever I can the ori subscription to 2000 mas. I know you are disappointed;: The decided to your with my deliber and. I) and recent my decided to fight file with five and take up your testion Corporations it professes to Oght, Claimately, I have In about, 2000 has taken on the cycless of the

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One very displeased former subsurface

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Contractor funds. We've and Tone Magazine. But we is ser of the collectification, so that people duch whice their proprie to pay up - each label tremains the date of the bot of such a thing. And for the record, our labely give to be STATE AND TO COMMISSION BEIN, WHITE WE SHAP BY A MEDICAL PROPERTY OF THE PROPE reduces stated the latest of processes to see well now "Reason". Sindroph has over redem affirmer as that defines the will reactly exicult that our floorigmen persons

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Раурнопе Енп

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using AT&T long decease. Using the BM number of Sprint operating centers Adop dominions ? (The residences is cight across from a US aumbjare. I wen't chiefene there now for obvious reasons. gage 45 of your Seramor 1995 issue, I found both area code plus 505-1212. Talese are Wilsolico 6000 models distance directory essistance calls tell fine! You know, a resulty residerant. Both payphoees can redict long I've found something intensiting at two pospicoses at

Neophyte 11.36

Ligar 2000s phones you describe on COCOTS. programming is done of the phone in this case, since the out of auctaigial programmed as fine cails. The fixing before a been information cash are assistantially for (ir) spalled had programming. We've seen this saying

New Others, I.A kept returning no quoter for local calls The popphones to the Days has at 1650 Cond Street.

this so? Was the delete in the phone? If was a field phone. no matter how long I believed. We complain to the wite to

San Diego

one priors, that the positions is difficilely - unioned stational files openiusely deprend unit more than In year care, the problem was most disaly

that ministers calls to make sure they're not "cheated" or the facil copy were marchening the physics. Every and the like being anonitered constantly? and lets screams know at they and Or are mall phones way, it's seary - has anyone ever heard of a COCOT had all manny makes or sepoching by this service My only conclusion was that somehow I set off some making a regular call - faite talking and everything out and falled (quite well in my spinion) that I was the neill engly in the morning, and I had my credit card saw what I was delag, since it was in a vacased part of phones had been facting funey". I'm positive nobody people if they'd, went unjoins feeding sensend or if the spanns (mail: cays) banging around the phones, asking was absolutely effected to see about six or seven minutes later, however, I came back to the area and body up, so likely allose and whited away. About the up and by your call again" message after the 1-800 that and it had newbern, it would just get the "body when it tried to pract. Well, I tried this about chose for them to hang up, then "hissing" in the receiped COCOE, namely calling a 1-800 number and warring methods for genting an unrestricted dial toro-on a dung happened to me at my local main See, they've and it personally think it's the greatest thing in print left after you insent the money....) I tried out one of the physic and then a timer of box mode time you have CED displays that any "DESC" whoo you pick up the COODTs. (No token legas, some peneric LD earner got these "strange" payabones, which i imagined so be knows what that is anymore). Anyweys a strange (new to the First Amendment, but it seems like usbody Si. I've been reading your roug for a few issues

hier using a phone. fore to hour there explains only it's applied stall policy to Particularly when it comes to repeatly guards. We'd just Then you're to a work all digits remains comide

say "Service Farry 14, Collection". You than kit I and it the crain box. The number was 49667, and the coope will he dialed an interesting phase number before empoying Because I was watching a poin code-our fram PSC, and locals, it will select the correct terral to 50 000. Installation. If you bit 2 while the phone is readily the the amount of money made by the phone since will read off the diament look of money in the places, and I thought you pays much like to keep about this

The COCOT sedictor will not sleep well as eight Death Adder

Quarter Variations

D5004 doesn't make a difference when the specifier is hidd to the hatteries is that the volume is a finite bit the regard, but it realistic. Tan only downself of using the two 3-vots produced to spricker succession, making it seems more make the pulses always be 3 (25 cents), and the ranes are became a bit smaller, and the firming error was changed to Rollin in series. With these simple change, the "Quarter" my collection, I just used one 240 holic sub per 250 believe diameter makes a feig difference in liming and body or the A.M. Sankler (#.5 vols), I observe we something a but "change". Instead of using a 9-sold commons about this before. After bridging the "Quarter" in the Summer 1999 issue. I'm sure you have gotten queing. Since I wouldn't find a naister of that value in (originally 400) behas) to equal 460 kohas - the 10 the job and look up less space. I changed the value of RT 1940 CROOLS Switchittsum banesies, With 6 volus, it did tew medifications to the object and come out with gioce), and the timing would be a fell cart of wheely Told a some art is groups of these (aprivalent to a 15 cept I national that symptomes, the tenes would meak our and This letter is regarding the "Quarter" device printed

東西野町 - 600

Prison Phone Report

Pres 26(8)

DONE PRODUCTION I know some inguitions person has the answer to

is some equilibration of tope and pulse generated call to be person to person or a plant old garden variety. area code where the prison is booked. They've visco and then put the through to the content putty, but not est of asked the for my name. It would stall for a few seconds that all I had to do one often the condepieds when it Extending? When they first installed this system is fessed that their family or whoever, is it possible that this system sense you can bear other people's pulse numbers as they connected if you truen carefully after you've given your asswering person pushes I la race mode you get call from (losens your recorded value) and if the while it manages is then acknowled genote who picks up the one. If the prompts for your name and tells you to wan your comes on and asks whether you'd like your collect before your namion but an independe computer graveralial system that MCI as rushing just for our inconcerned exist passe and or parpetred at each past to morning calling card only types that you see in the singular of the trivial Eurosing. In offset they are those eripying! have not change gird or information printed up the outside are quite weigh. They are payabone this is appearance but call anywhere in the world free glickerge, but not the DTP maken ref.!! For some reason, doing this allowed you to photos on the other end if he or she will assegt a militari Signs. The system does not require you to dist a core C) Our phones in the prison system have in Michigan

aptized the system so that ship little, trick won't work

on AT&T operator, but I do know that trying to get we operator the old Cathlored way (0) worst work. You also 現場、は名の can't call enough the 513 area code. World, hah? Any to see your salling earl. I haspe's third disling 10,000 for regular Jesphanes dat georgi meney bar degle aller you I'm going to go down there is a teste white so i'm hoping someone can figure this one for me. The juli's phones are 2) The oceany jain's phone system is a little different.

Order paragola thing. Hope that helps Almost called alt illuminant and about with the whole New World On by the way, I seem to recall a Chanco sewagoog.

not easy und it is different to every level which is undoubledly abouting up to a proper plant. It's chief in the made some part of the part her the chief of the party promisive either of you do userage to per an optional, the jadanikinizien with Joan noord, system - 866 ft 956 s the collect performance even black treats if you're in a definited account contact, collect collect, greate done con-sufficient company. There are an abraga estimated symbol of ATT - HOW SHAPET BY ANY COST DATE PROPERTY OF THE FORLIS in any event, the parise species has got nothing to do with Well den collect colle, so they dischied the brack black <u>gefolds</u> realight shoulds triaid felt from hower and acress MCI isotomotod operator. Perhaps some proposió prison The givent system and pulle dinning to get to the

Government Data

I just bought the Automa 1969-2506 Magazine, I

this detaber in send messages and to be in totals with the to the White Beaus. Con you pleast provide the with industry and there is a 60% given; an emplification Clinique is a real puster of the information super lightway PasseonCs, etc.). I just heard recently that Provided Bill raveleted in the computer security field (Access Control. but I are very close to this world, being a programmer Weybe I am too "old" to be a real backer (I am 40)

body, je a li get a form letter back yes are remain anonymous on the near of you've wai ever the road by the recipients, then I bettern within that Greekson. Con't think for a record that this mail will the government over the forecast. The pitchesses are his conveyed a RRS filt a veg to setal problem to

Cellular Chatter

sione the ESN. On the CPIOO jit's begand as ICIOP over phone uses a 10890046 housed at an eight pin societ to dishing about all east be was raiking about The Uniden standed out good but it was soon chaines Judes General The Agreem 1993 reliefe on "Abore Callelar For"

> BENEVIOUS BENEVIOLE to the formware. This only doesn't'll with Daking phones is that you recall a Cividen "NASK" without buildness of that go

the polch kir does exist and makes editing the ESN w frum fac keypoil. may the the other Manifesti the ESN is able to be established Sandard bandser troop a "NAM writer". On the Magazile I should be writing an indeed warn up converting the

NEC phones bable of deep pring trained was reproduce Metable and on phones newer than 1902. Short new phones have a I would not maximize all trying to do an USX charge

Columbus, O'H

More Corporate Outrage

period you probated is a 900-715-55XX. quarterly and also on a hacker's bulletin board. The ade of oed Susiness marketing 500 minuters in your it has define to our attentions that you have privileged

needed information to law enfuncement agencies and major businesses. which openeds throughout North America and possible Our service is a commercial catter identification

See sees the figures distance feet we pay while our lines are in the during our platford costop accordy their time, but also the long call for "fue", your disclosure is causing waised done by By gublishing one of our lieus as a novely auraban to

it from bulliain board possings and, so the bulletin boards such cells may areate civil and/or enmissi proceduren for called for entertainment or carrosity purposes and that commercial caller identification service and is not to be interference with interstate teleprometers indicate published by your service which depositions publish the posting that an 800 number bad been publication of our business multipor, Irrapodately retrove You are thereby given white to reason and derive the

regarding their above of this manifest and your company number are being identified and others will be compared will be involved for the call activity or a rate of \$1.00 per You are also hereby notified that all calls to this

disripting business services when encouraging your scatters to entertain themselves by We hape in the fature you will take more percentages

Laveland, CO 805.58 James F. Walker (A) (A) [10] President 江水のち

FAX (900) 663-1708 (300) 663-1500

auralized in flict, we full producted fliker policiable search goest when? We didn't even publish your staped 600 condessembles, we may select know what in Fight of years feature of character theat, what uppeared one over much digits goldentee by blanking over part of A. He if swarin Of this train the belief of arragence and

readership to never do desireus with this company. The feelings obout these so clear, we rememb arge our of this unique group of journie ducas you've made your have arountly gotten have real rigitimate mentaters out the one year use and, if you recent the stack als, you expect consuppringuistic Characters have abaijound material time maders to seeing but made friedom calls and decays here. Yes he got one field of a neme assuming that one Janesmeest. But that's may what you're relking about one gailty of freed. It's person repeatedly calls your should analise set all hippy. amorbial after boding existed not for in it is observance as hill continue for earling rose did namber, you will be the programme an instance of which there are wines my to Calling on 860 auction is said, by any streeth of the conditionable to become they can be used to account fixed 466 anaber there, we are under no obligation popul you mantion, is estimate tages, of somethody pasts an mail govern, which we comme as he she hooker dulients educations to energy in We don't allow analysis an arealist

Individual Outrage

Per 1999

I jest opon understand way the backlybreak community be applying to bitch about where it seems a parting beated by the line subsection. I for a published author of a book Check-of-line of the Charles started a second book Check-of-line of the Charles started a second book Check-of-line of the Charles part of the Atop Mengal Check-parts. The officers of person from religion, morality, of both the law officers, it can, religion, morality, of both the law officers as to far have had very little suspense from the Eth community. The endy group here in fluorests, the NSA, has offered some information.

As it stands, the American public perception of HP people are Statup Note Spatied Little Brats that me a meaner to state of and should be spatished to docked up in a reform peloci. With this brand, it would seem logical the KP small jump at the change or give their remognate out. Maybe their LQ, is not high enough to assemption distributed they are traits deed, due to their comparer but showed if of their tainding, but some reason, they are until talking among themselves and not to the public where it counterformers.

I rayself there put my now on the first first hard or gescapes. (This Includes Gail Thackness (tabs have or as the Becker Tracker), the deputy processing attorney for the State of Artizona. Thereforery I are responsible for invary contributes beneglic above, due to Operation StatDevil daning 1790. By showing any consideration for and the exil Tarchiphrash/pirate community, you see labeled an enemy of the same. I am professive at the tag of Therebeny's lie. We also have a kid our tybernings from the International Association of Computer Investigative Specialists Howard Schmidt Track God Lam on author and have the Frost Amendment on my side (so fur).

If just upons not to think that those po-called childrenship backers/photodeuts are inding in the softay of metrhedrooms deling initial of log role (that is all it is) and not

> willing to dight for freedom in cyberspace. So, so the American public passes name and more laws that will have a stanging effect on the SEP community, they so there with their thanh stack up their as:

If any of your needers would like to respect to the comments smale heat, they are side to creat the set of 6500, or paid 6501 W. Houris State 5-111. Cheatada, AZ 65000, or paid 6505 (562) 562-4100 Fide 11 (4419). I dup't meet to here fairly family from proceeding the state of the set of the state of the set of the set

I hope you segoed to the open invitation to trade a difference in cuberspace. If not, then you have only we continue or home.

Richard Florin Computer Justier Glendak, AZ

Fingles as far soying this but marks pair to going wheat tell in the arong way. You need to be show confrontational If you keep to using to since to as we've liable not to respect to all.

By the regs. Therefore, heart i worked for the State of Arizona for journ, You out shorp our now

Exiled Hacker

Dogr 2600:

If we written to commend you for confusing your publication for whole, I myself used to be idealed with things you prior about. Unforcenteely, I was account underly character who you caught by the by. It was also very tempting to begin again after I got your must wron itself, but thought where and decided against it. However, I will continue to read your publication and hope you continue to acts it.

Acres

Harker's Hospics (1986-1889) RIF

Please give you will since code. You don't have to copage in thingoi activity to be a known, to long or you long an active interest and daughtedists, you'll be a compartie.

Pomier

ENGE 2000

Regarding the latter in the Autentan issue seeking a RRS with information on the New Woold Order, there are a number of stateds and all Resides your level library's. They largesplace RES (2015) 743-9671. These used to be a RES dealing expectably with the NWO can by William Cooper, an exchang functing one officer, who currently has a shortward radio program on NWO'R (World Wide Christian Radio) broadcasting from Nativilla. The show obtained by the "bumpath" or eithed, even in the middle of the purguen and the broadcasting lower was broad above that specific would seeking lower was broadcasting parties and the broadcasting lower was broadcasting parties and the broadcasting lower was broadcasting parties and the broadcasting lower was broadcasting parties.

bewee't need it yet, died "Frieuty for Sale" by Jetry.
Rodificator.

Fighting Back

Co. 1660.

Read's one for your Albert planskel.
Still by in any antidown spall ment one mornal
Stranson, plying to done up with termone or sounding
to pheate, the perfect limitation come in society the buyle
to pheate.

The photo-rang, I provered, the celler wall arching, then bring up after about 20 seconds. Well, I've had Celler ID for a couple of months one so I checked the box to see who it was 10 very 404-512-5100. I also recited that I had gotton many being-up cells (no message on up making from that governor nearly many, 6-30 to 1430), in the post few weeks.

Well, if someone calls are it turned of times; 16 to be exactly and barget get trousière it or challenge. I celled that number and several others in that range and I would always be competed to some type of device that would just six there for short 90 seconds then disconnece. Family, it recreated to one that I was colling into some system's outgoing turne group and that the shrike was not really answering but accessing an outsead trank and waking for a dial core. Well, I gave at a data one found one. Well, I gave at a data one found one of any architects of cascella lapen. Guess what's the dial's later up a dials Shock DNR putant masher recorded to see what it was the device was calling. It would find a different number every time, sometimes over the light tell numbers, but they shweys stand with a

I was still purchal as to what had been damped on my doctriep jour whiting to be played open. I decided that the intack gives be a Chatter line because what else would be disking a "9" towards the local CO?

Now it was time to let the mystary and get account.

West through the sequence and, after the device less dished a rancher, I played a ringback note mon another one of my archived aspec. Nothing bappeared it, just kept learning to the ringing type. After about seven rings it would have up. And if I played a tape of a lessy signal or records: it would have up. And if I played a tape of a lessy signal or records: it would have up Europhiastly.

Well, I thought, maybe of a bolking for a voice prover, So after two rings I said "Hello". It make the bald formedonely server some or and said. "It is to Bald from the Affacto Award and Constitute and I'd libs to all you altered voltacing into affar....." I never had it pagped the affacto is no and disting system that necknologically sumbers, wells for a ring and a voice tensors, then contexts to a safet operator so that they don't have to the disting and they never get a tany or no answer?

The stime that is called the with no one there must be the been an occasion when the sales operators were too basy to get my connected call from slick gadget. But the sales operators sure are purposed that if its always the person who meanths an entire when member that system called I just and the if it the first done. Ever gather a call called I just and the if it the first done I ver gather a call.

from them, but they sare can funcy when they managine my voice.

Now I've found ways so get through so the safes

Trout

Now I've found ways to get through to the sales specials without owing the large. The calling system has a wide affection of the large affect frequencies. If you pass the I and 2 bid uses and nighted frequencies. If you pass the I and 2 bid uses together or most thruth once photos you get a single 697. Has the devices accepts this as a waid day uses. The devoce doesn't readly wait or bear a ringback trace but will connect to the sales upstate or after bearing any synthesis veice, as long as it depends have a long stage of the sales upstate of the sales upstate of the sales upstate of the sales upstate of the sales and depends have a long stage of the sales upstate of the sales and depends have a long stage of the sales upstate of the sales upstate of the sales are the sales a

What's next with this fring? First I'd like as know what it's called "And, since most Centres lines have sall matable and these way calling, there ares be a way or go in, then get book our through their system. Any sheet?

Belbourh Baboan

Atlanta, GA

It is a harmound, a Creative gover, After all, eachy place systems require a 9 in yet and Ajura from they we must compliance four on an expension families expendition that better more about this bind of thing, as ill pass it on.

Governmental Suggestion

Fact (2007)

Just wanted to drop you goys (and gails?) a time and say thanks for publishing such andormative such. My friends and I leak forward to every have. It seems that your publishing in feely pupulse have in Fact. Worth Teast, as it is usually sold out Leak's No we say how to substitute!

After reading the article "Congress Takes A Heilday", and needing frinker, floring "Bookstons Teadled", you may hose, arknowingly, make a way good aggestion. I do not know what the world and you be the goes. Why not send a copy of 2500 to every congressma, each general if not or every one, then have shout to the "teadlemakers".

It may not give any of from a due, but it just might agen up their minds. And, yes, if an act holding my beauth! Do you know of any possibil meetings wiking place in the Datase For Worth area?

HandyS15@Dallas

Link for dentils on

The first sectoral Destina markings - book for details on page 46. Sending bases to compression to an externating bled. The 16 files to get assets hopes on this.

Phiber Parallel

Dear 2690:

Your editoral on the fate of Pither Optile was death an Year successed to "Rackedly, they successed in sending a few friends to prison for tresposing" sets, a fattle of prospection down my spine. A few passing sets, a give getting off a tree shift, a friend send it sees among white soliding dengates were uniform made sound by Seathers Pacific. The sheat revision of our entry is that the shortest had nothing better to do, and notified a "Ref" ance for their records, to they charged us with following the first had been for their records, to they charged us with following the first had been according to their records.

(continued on page 40)

Spring 1994

Blue Boxing Revisited A CCITT SYSTEM #5 INTERPRETATION

by Kevin Crow

reader basic COITT-5 International signalling. More technical readers may enjoy reading the original COITT-5 "RedBook", and can use this as a supplement.

During the time I've been working on this article, the ITU has changed the names of a few departments. OCITT is now known as the ITU-T, however for the sake of avoiding any coining in terms, I will still refer to the signalling as "COITT-5", or "C5".

CGITT-5 signalling is still known as the international signalling standard. CCITT-5 is reliated to R1 signalling, a substandard used from within North America. A highly stripped down version, R1 doesn't include any bunk signalling involving 2403Hz, and I won't be discussing it in this article. R2 Signalling, another substandard, is widely used in Europe, however I will not be covering R2 signalling in this article.

of AT&T's propaganda eyer the years as CCIS, and eventually SS7, and its moved on to bigger and better things, such addressing this issue is simply to remove UK has had ISDN for far longer than we Digital Hysteria. I find it arraying that the advanced country that we are" we have United States, "since being the well-C5 is no langer available for use in the boxing is possible from anywhere. any sort of beliefs you might have because it's still worth mentioning). The reason I am with C5 that spond befor than the new stuff been able to got near-perfect concections (although this is strictly medium dependent, have, I still profer vinyl over CD's, and I've I neve heard over and over again that

Back in 1975, when OCIS standed hiting the scenes, there were many problems that immediately crept up. AT&T's breakup in the 80's didn't make the transition phase any easier, and in perts of the new Beby Bells (even today) you can find R1 Signalling. AT&T has since scrapped their experientation of OCIS and is now using SS7 wherever it is possible. Ocinot let this

confuse you however — no marter what switch you're on, or how you're being routed forthrough a C5 confuction, in most cases you will still be able to signal yourself. On with the show....

originating switch (or senticy the switch on signals being sent from the originating case of the blue box. minicked with \$20 worth of parts, as in the really quite primitive, and therefore can be happens between these two switches is backwards direction. The dialogue that the remaining five are signatled is the signals". Of the eleven signal groups, six the other side) are known as 'backward likewise, all signals being received by the switch are known as "forward signals", and scope of this salidie, let us assume that all need to know what to do with them. For the which signals are being sent, and they well as receive them. They need to know they require the ability to send signals, as switches to communicate with each other errordise international switching. For two are signated in the forward direction, and and functions are executed for (almost) signals that all the necessary operations major groups of Signals. It is with these Co signating is broken down into eleven

Let's take a look at the signal groups:

Seizing Signal — The seizing signal is sent in the forward direction by the originating switch, its purpose is to initiate circuit operation at the incoming end of a circuit. It "seizes" the equipment for switching the call.

 Proceed to Send — This signal is sent back in response to the seize, and indicates that the equipment is now ready to receive the numerical set of signals.

3. Start-of-Pulsing — Also known as (XP). The KP signal is a forward signal, KP is actually broken down into two types of signals. KP1 is "terminal", that is, it is used in placing domestic calls. The KP2 signal is a "transil" signal, and is used in totomational Signaling. The purpose of the KP signal is to prepare the incoming switchs registers to let it know what kind of

call it will be handling.

4. Numerical Signal — This signal is also a forward signal, and if provides the Information necessary to effect the switching in the desired location. The numerical signal includes the actual phone number of the desired location, as well as some extre information that will be discussed later on.

5. End-of-Putsing — This is also known as the ST (start) signal, It's a forward signal, and its purpose is simply to show that there are no more numerical digits to follow, in a sense, at this point, the call has

indicate that there is congestion at that sand signal (see below). answer signal, and only after a proceed signal is never supposed to be swritteder an exchange to release the connection. This clear forward algnat by the outgoing subscriber that causes the sending of a autgaing operator or to the calling congestion beyond that exchange. Upon its exchange, or the appropriate outgoing recept, there is usually an indication to the reutes. This signal is optional if there is signal after the register association to International Transit exchange sands this the called subscriber is busy. exchange to show that a) the route or b) signal, and it is sent to the outgoing "Marted switching". Busy-Mash — This is a backward The

7. Answer Signs! — Another backward signal, this one is sent to the outgoing exchange to indicate that the called party has answered the call, in a semi-automatic working, it also has a supervisory function, that is, it begins the initiation of watching ever the connection. In automatic working, it is used to a sent metering the charge to the calling subscribe, and by to start the measurement of the call duration for accounting purposes. Receipt of this signal also permits discrimination between the busy-flash and clear back signals, it also must never be sent after a busy-flash signal (see below).

a. Char Back — Chriotisty a backward signal, it is sent to the outgoing exchange to indicate that the celled party has idealed, or "hang-up". In semi-automatic working, it performs a supervisory function as well,

and must not permanently keep the speech path from being open at the exchange. In automatic working, if the calling party has not desired within one or two minutes of the desir back signal, arrangements are made to desir the compaction, stop charging, and stop measurement of the cati duration. It should also only be sent after the answer signal.

overriding, and it will break any other signal the release of a circuit. If is completely erom an optgoing end at any time to initiate box enters, left stage). It also may be such equipment, including its idle coodition (blue of an outgoing register occurs. The clear connection, or when an abnormal release when these is a forced release of the in b) automatic working when the calling release guard signal under all conditions of forward signal must be acknowledged by a fiash signal by the nutgoing exchange and Is also sent after the receipt of the busysubscriber hangs up ar otherwise clears. if an equivalent operation is performed end somi-automatic working when the operator signalling, and blue boxing. In exchange very important role in both exchange at the outgoing exchange puts ther plug, or signalling, it is sent at the end of a call a) in Clear norward — This signed plays a

10. Re(ease Guard — This is a hackward signal, and is sent in response to a clear forward. It also serves to protect a croult against subsequent seizure. It will do so as long as disconnection operations (controlled by the reception of the clear forward signal) have not been completed at the incoming end.

 Feward Transfer — The forward transfer signal is seet to the incoming exchange when an outgoing operator wants the help of an inward operator at the incoming exchange.

You may have already noticed a few laws that must exist is order for this whole procedure to work. Tricks "laws" are known as the "Signal Code". I will spare you the boring drudgery of these laws, and will not go into too much detail, except where is needed.

General information on Signal Code In the early days, you may not have

Page 32

fullowed, or sumething goes wrong. In attention must be given. Obey your laws. according to the 2aly redbook, if it persists events such as a "double soizing", fit is seen as being transmitted by both sides. what happens when these laws aren't Important aspects of the signal code is Include you Arriga famers. One of the most signal imitation". Hopefully this doesn't played in tandem (no gun intended), or combination. With today's high-technology This condition is usually detected, and from what is known as "talse release by simultaneously, is to incresse the immunity The purpose of these fwa tanes being allow for them (an example of drudgery). transmitted individually. Yet, the spens reason at all why these signals should be DSP's and signal generators, there is no may be transmitted individually or in Hz is known as frequency f2. These signals reference is known as frequency fr. 2600 signal-coding errangement, and for within the US using R1. The 2400 Hz signal plays a very important role in international most people were boxing domestically from behind the famed 2600 Hz signal, since heard much about the 2400 Hz signal

This information may or may not be useful of the redbook, since it's fast, and quick(er). operating limits. I'm going to quote right out Finally, the signalling frequencies and

2.3.1 Signalling Frequencies

Continue ton. frequencies are applied separately or in 2400 Hz (FJ) and 2600 Hz (f2). These

.. Staff out out

2.4.3 Efficiency of the guard circuit

circulating in the line. The purpose of the other currents of miscellaneous origin by a guard chout against false operation guard circuit is to prevent: due la sippech augents, oircuit naise, ar The signal receiver must be protected

If the duration of the resulting direct-current the switching equipment, long enough to be recognized as signals by pulses at the output of the signal receiver is e) signal imitation. (Signate are imitated

unioneding with speech b) operation of the splitting device from

To minimize signal imitation by speech

sensitivity of the guard circuit at 200 Hz ba towards the lower frequencies and that the the response of the guard circuit falls off by low-frequency noise if its edivisable their be funed. To minimize signal interference oursants It is advisable that the guard circuit

guard alrows is given by the following: 1939 10 00 mas from \$43, 91 1000 frz. An indication of the etholency of the

initiation is not made recognition time of a signal Natio to lasting more than 90 ms (the minimum operation of the it or f2 signal circuit average, cause more four one false speech carrieds should not, on the a) during 10 hours of speech, narmal

in the transmission quality of the circuit. stroutal not cause an appreciable naturation speech path caused by speech currents b) the sumber of false splits of the

and 14.42 moderns (among others things) of data transmission. the connection is not reliased at the start transmission should be performed so that are using the same frequency, additional tests where speech is replaced by deta Note: Since Signalling System No.

3.3.1 Signalling Frequencies : SOME CATEGOR

> Brazil: 344-1055 Belize: 235-1164

 $\Delta m g_{\rm e}^2$, plus that the conjugate plus along the property of size (The Publishing Terror)

forward signed frequencies Simple graph showing

of any two of these six frequencies. The of each nominal frequency. frequency variation shall not exceed 10 Hz A signal shall consist of a combination

3.3.2 Transmitted signal level

between the two frequencies comprising a signal shell not exceed 1 dB -7+- fidding per frequency. The difference in transmitted level

> register KP signal: 80 +- 10/ms seizing line signal and fraderingsion of the Internal between all signals: 55 a- 1 mis 3.3.3 Signal duration Interval between cessarion of the All other signals: 55 +- 1 ms KPT and KP2 signess: 100 + 10 ms

irequencies chases must not exceed if me. the moments when each of the two sucesof final. The interval of fine between comprising a signal is sent must not maments when each of the two frequencies 3.3.4 Compound signal tolerance The interval of time between the

and other random phreaks of nature have "dislable", operators who actually know of non-dialable numbers that become switch "characteristics" that become been known to occur. what they're talking about can be reached, during such errors. There is a wide variety conversations have been known to occur Grossed-lines, and "dropping in" on apparent when you break some of them knowing that there are some interesting C5 signalling, you may be interested in Now that you've seen the lews belong

perhaps you should find another way. 1.5 second delay on your conversations, cleanest way possible. If you're getting a make sure they're routed through the axists for locating "important" customers to variety of pathways for connecting cars rautes also allows companies to use a abused [MCI] notworks. Having additional number that can provide extra security for dialing via KP1 routes (perhaps for lower (cross-Atlantic, satellite, copper, fiber, etc.) Oftentimes there is an additional routing level compatibility reasons, or accounting), through special routes. Other countries connection paths that are secessible network congestion, there are usually open instance, during a time of war, or serious additional digits in their numeric field to much detail. Some countries have have devised ways to allow for international represent different situations that occur. For the "numeric" digits, but never went into have iteard rumors that indicate a formula Earlier on I sketched out the place for

On the whole, countries must have a

expect CCITT SS5 to disappear envitine claimed thing works out pretty well. I don't there exist differences even in signalling case of the metric system vs. America, continuity in signalling, otherwise wo cafs, vary (Code 11 vs. 121) but overall the involving operators, and operator-assisted (nowever minute). The actual routes wouldn't be able to communicate. As in the

by speaking with the international division can be found by disting 800 information, or been termed "pountry direct" numbers, and while they stay in the States. These have available to citizens of toreign countries ere a handful of 600 numbers that are e little more about the way things work little difficulty with this experiment). Below you with 5-way calling may experience a the hookswitch of your talephone (those of tones, you can do a few things simply with firsthand. Even without a box to generate decades, you may be interested in learning what's been going on for the last couple of Now that you've learned a little about

Portugal: 822-2778 Uruguay: 245-8411 Panama: 872-6106 Malaysia: 772-7369 Macau: 622-2821 Indonesia: 242-4757 El Salvador: 422-2425 Mungary: 352-9469 Guarn: 367-4826 Grande: 443-5527 Germany; 293-0049 Chile: 552-0056 Costa Rica; 252-5114 China: 602 L402

off and on. actually hear the supervisory signals going up for more than a minute or so). You will the hock switch (make sure they don't hang the person at the other end experiment with will hear is a CS Supervisory signal. Have these countries, one of the first stings you Yugoslavia: 367-9841 (having trouble) If you actually make a call into one of

have been able to trick switches into As in the case of the blue box: people

send a traditional KP2 (indicating of the most interest, and the boxer may good luck) + City Code (or Area Code) + the correct routing to get the calls strough. a trunk on the other side Isa't enough, of lide mode (or whatever mode it was in) thinking that they were another exchange thing in the past, and is still dialable today Allianos Teleconferencing used to be a big voice if it's not possible via direct routing. other operators and settle business by Inward operator, whose job is to talk with 12 415 121 ST will get them to an AT&T number + ST. Signalling numbers the KP2 International call) + Country Code + 0 (for Typically, international "transit" routes are however, since the baker must also know seize of around 150-400 ms. Simply seizing for 110-150 Millissconds, followed by a Paxer usually consists of 2600Hz+2400Hz for another. The clear forward sent by the so usually what works for one country won't Countries differ in limings and sensitivity boxer, since timing here is very critical response with a proceed to send signal then sands a seize signal, and egain gets a notifying the boxer to proceed. The boxer It will respond with a naisase guera signal forward signal. This will bring the switch out those 800 numbers), and sending a clear (which is what happens when you dist C5 connection into another exchange basically accomplished by dialog through a somewhere off in the distance. This is This is usually the herdest part for the

> 2450Hz - right out of the filtering bands.) 2400Hz signal, they'd sond a 2650Hz or a example, instead of sending a 2600ffz or a perform just fine out at spec, and, for systems on the other side will actually aiready figured outliong ago that the chaos — nice try: (The Germans have connections to by and stop some of the Telecom "filters" that they've placed on C5 combat these problems. The German to make adjustments to their systems to late the lower achelons, countries have had pirating. Even the great people who were at girifriends they'll never meet, and to for their own amusement, making calls to ground the world have used the blue box disappear — well, almost. Kids from all and harder to do until eventually they good tricks, they eventually become harder has gone into the wrong bands. Like all Tuleoom has sperk many marks on British beast. Now that the technology has fallen Apple Competers have been known to have played their part in releasing the warez" boards to do some software I am not happy to say that blue baxing

scope of this article. Maybe next time kids. to others) but, unfortunately, it is out of the more feednating results, (faking ANI, billing cover 5.2 alignating which yields much blue box mystique. I haven't even began to probably be new ways to approach this time C5 is completely scrapped, there will and the signating is disassociated. By the Slowly things are going towards 537,

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A GIFT FROM HALLMARK

efforts on The Magical Tone Box article in his article saw print it became obsolete! the Winter 1993-94 issue of 2600. While its efforts deserve plaudits, the week after My heart's out to Fyherlyte for his by Remne &

Radio Shack sells which was used in Storage Devices, Inc. (who makes the chi company) has teamed up with historiation levels. Hallmark, Inc. The greeting can sophisticated technology to ridiculou electronies industry, has succeeded in TyherLyte's project) to produce the bringing down the cost of very Talking Gracting Card Once again, the mass market coasume

person of your choice. The possibilities recording device (complete with speake completely assembled digital audio greeting on the card and mail it to the The idea is to record your 10 second water ind microphone) building a greeting card For a mere \$7.95; you can buy

containing a hisy 1.1 square circuit board smaller, which cheaper, and ready to go! parts for and assemble: except it is more piezoelectric microphone, and a decen but 1.5V watch butteries, two switches. plastic and cardboard frame insidame thing hybertyte took pains to gathe 5" (6-ohm speaker. This is hisically the If you take the card apart, you'll ried

band lidelity is quite goods and it FONcard codes, cull-progress feness felos ACTS com-deposit tones: Sprint voice excellent for recording ford playing back obacco (in: a Zippo lighter: a decial) flos hese anodules and concealed them insidhspensers even a coat collar! (The voice kinds of unlikely containers: a chewing My hacker friends and I have remove

accessible; and readily, hackable device! enough to send the very hest" in a cheap Thank you. Hallmark, for "earing

carly duty that of common ways codes to Sell has somed work in all some of the country. I have included only a 10-2000 rode). Since there we very live been rootly that the good breaking releases in the range code (1600 suppose to the of the mean mountainhead and entered features of

get these from your long distance surrun to by seasoning is every RBOC in the visitity of 1984-1985, and are giya yan a Bahiri tarax apdes for your nan - you have to e單 fell you if you have equal access, has they will not long distance service, sames codes are evaluable. Your reliab smass of the country. In every area that has "equal areass" communing to be instituted in the constition (independent) Tends ander were instituted after the ATET breaksp

2000年 BOISE billed for the call (the beig dobines carrier has to pre-gran deals only with COCOTs), wantimes you will not be you use an observe challe (such as a quarier which excelly strongli Piczacorum and not Deadhaux. Odils glaced druch as a conference calling secritary avoidable only to where year'm calling, the examples or if you need in rake a year or room for the cyclic he haline - in a usually KIKK to bill the call for them). Also is non-necessarily through least codes are billed by your RBOO, he word, if you need to secress a painteer in the 0,000 area for a secress eignenwere Deathstac for some resona. This is also neefel if long distance cardet other than the one that is primarily Colonie Call. This is useful if Plants of the blast of two rate. (benex) dode in order to use Pizzacomes for the logg Figure on the could dist the account's carter access to algored to your support. For example, if Deathster Del is your primary hear distance carrier, and you profer to see A reason code is usable because it portate you to use a

telegolitis possible to dial a resent-ACM on a jurghorio board votes the SBCX compation, and in some way small the RMA and go over the ATMT network (which can be A Tieff armed when not beering in some since, as discusses and not libert out? In a taxont-AC. Also, it's meful to me the example, since EEX's will block units to a 1500, but will and not by billion by the only Of course, there are many other uses for it. For

The formal for using a launce is as follows.

Evengle: To use \$1.51 to place a call to the 3600

10285-0-207-201-2009

which use a little have during network difference and becefischt to me Speire unboputé AT&T and other carrieds Sprier (Sprint has its own natwork Inco Charatte on it is Are the example: To place a call in Vincinner uside

10373-1-504-662-6397

Brick Est & Street Codes

10288 - 3.TOT चित्रकृत आर्थ्य के बाबीन की की बहुएको ब्यानक मार्थिक

10012 - XCI 10002 - AT 60 private test persons

10939 - Sprint

記事と記る

LEAST MEATORER

NOT MUCH-GOOD NEWS HERE

A trip to the library can reveal all soits of faccinating straids.

A publication celled Pronocator's Brief, described as the "newsjournal of the California District Attorneys Association" last some rather sheeting advice in its Summer 1989 oction. (Too bad we didn't earth this one sound)

In the lead story, author Jerry P. Celeanan proclaims. "Prosecutions of phone thackers' are not overly complicated, usay be even fun, and can certainly assist your office's arrained hadget by providing a ready source of congener transference."

According to California Fenal Code section 502.7(g), "An instrument, apparatus, device, plans, instructions or written publication... they be seized under warrent or incident to a lawful arrest, and, upon the conviction of a person for a violation of subdivision (a), (b), or (c), the instrument feet Juray by... torood over to the person providing telephone or telegraph service in the territory in which the same was selected."

But, according to the article, most of these companies will donese the equipment "right back to law unforcement". What is every arrangement.

Observing conitoring, some of the revolutions are pearly seary. It seems that pen registers operated by Pacific Belt double as partial windays, and it's perfectly legal for them to record conversations without a warrant if it's part of a phone company investigation? The article states, "In the case of Pacific Bell, but not necessarily all other companies, the first 90-120 seconds of each call made from the uspeed line is taped for the purpose of identifying the person(s) using the illegally basics tooks."

The article goes on to describe the ideal scenario: "If you are formante enough to receive the case before the search warrant has should the backer to the investigation, your root important decision may well to the length of time the DNR stays on the targetool line. Weighing in favor of greater DNR time, are the desires for obtaining at least a \$400 felony loss, and identifying with certainty the backer. Those considerations must be balanced against the risk that the DNR and its attended call content tapping will be suppressed as being an

unbeasenable privacy infringement, and the moral consideration of continued bases to the common commen."

The "secorded solutations" on the tape are considered a key bit of evidence since they identify the defendant. In addition, "nny sectionals containing bandwritten authorization codes, phone numbers called, etc., van be compared to the known bandwriting of the defendant (from bioking slip and/or courtochered exceptions). Don't neglect the seized computer's ewa memory banks - either its internal hard disk et say theypy disks may contain programs or files identifying the

Digrier edectreys are also urged to 800k through the evidence for any "contacts attents the backer community" or BBS nutributs.

computer's user as the defendant."

Another "particularly fun" way of presecuting a hacker is to look through his computer programs for games that have a listing of the top 10 scores. "If your defendant's natice appears close to also top of the list for exclusively.), it is quite reasonable to argue that having had the most nine to play the game this successfully, the defendant must own the computer."

Another absorbity concerns the justification for seiring telephones, described as "entirely appropriate within the statute, and serves to drive home rather proplically to the horker just how serious this matter of criminal prosecution is."

It's pretty obvious how serious computer cause is to district attornoys in California. Here is out first solid piece of middant that they consider hacker cases to be fur and casy ways of gotting other people's computer equipment for themselves. A frue meckery of justice.

The CDA's can be reached at 916 443-2017.

Another fascinating document was recently obtained by 2650 - the full transcript of last year's Congressional bearing which tuned into a backer bashing coursesy of Rep. Edward . Markey (D-MA) and Rep. Jack Fields (R-TX). It's far too long to regeint here but you can got a full copy for \$10 from the 11 S. Government.

Pristing Office. Superintendent of Documents, Cangressional Sales Office, Washington DC 20402-9315. Tell them you want the luverings on telecommunications network security, sorial number 103-53, stack number 552-070-15676-3. You can order by credit ourd at 202-512-3476. There's thous of entertainment here.

For the last two issess, 2600 has actually been up walk at CompUSA, the computer superstate. For a while we were concerned that we were becoming too mainstream but our fears remod cert to be unforended. Apparently someone at CompUSA Comput decided to read a copy. Result: They have decided to read a copy. Result: They have decided to "permanently remove 2600 from their stees". The problem is, as many people found us at CompUSA that they remove being incudated with calls from people wanting to know why we suddenly disappeared. How do we know this? Don't warry, we know....

Goldke a pen degister, this is an ability that analysis to all low enforcement agencies. companies to provide real-time martic relightory proposal that would require phone borders. And that's not all. More recently, the to keep its nonchoring servates colside our of the NSA, an organization that's rapposed tochoology is being developed with the help encryption) because of the potential for abase government standard of compytion. Civil exvesting on phone calls that use the to approximate speed aboad with its will always be there, one which simply has to administration reintroduced a digital and widespread anonatoring of calegons. This Oligoer and its companion Capacine (for time liberties groups have strongly condemned Clipper Chip would allow law collorerment to implementation - on a "veloutary" basis. The Olippor Chip proposal and announced plans all of the criticism it has received on the On February 4th, the Administration rejected becoming obsessed with manifering distant ther simple.... The Climba Administration is regulating rates. If we only lonew it would be orgagorsent and blance it all on the FCC for the planer, denoted to break off the will report be history pose; Bell Artantic and TCL two of the biggest extens of any source biggest telecommunicipations merger in history Trouble on the information highway: the

> online information societies we've connected reveal what movies we've ordered, which more purposes," a recent press release rays. numbers we did. "As we all come to use a remote monitoring post. According to the by turned on. The data would then be sent to watching out every move." Isorally followed as around on the sheer, private fives as would be fearned if someone information reveals almost as much afractions telecommunications, this simple transactional maled, etc. With increasing use of to, which political belief in boards we've electronic connectations for more and information sawants to more than just the Electronic Frentier Foundation, such . . "this simple call serap information could also

steering or get stopid. AT&T's new orderwife to 1010288 (no codes be used for new carriers. If we assume that five. The 5000 and 5000 number ranges will Starting in 1995, you will dist with the formula handful of choices in any one part of the reach our voice bulletin board will be: are known yet), the dialing instructions to SOLXXXX, That's right sever digits, and these codes, so the rest of as times safjust. country. But someone out there is using all of Strange, we never soon to have more than a chousend possibilities are no leager arough. going to change. Youb, no kidding, it seems a different long distance companies, it's all Supplied to the IOXXX system of using ready for a shock. After tinally getting it..... Speaking of contier access exces, ger regardless of whother or not they've blocked constant passed on route, called party. very good chance of basing shear phone (10225), Cusiomer, who use Wilrel good a Wiseless doesn't plose oureste use of its code cornier access code (365.55). Cable & thing, anyone can access Wakel by using their nerges store lines and they seem to be a lot more.... We discovered quite by accident that I or 0 as the middle digit. Look for many 1010288-0700-751-2600. This is really Wiltel Communications passes Caller ID data deboting in 1695: 324 (Ažaburna), 260 herrer or it than Cable & Wireless. For one (Wizskington State), and 520 (Arizone). These will be the first area podes bot to have Some new area codes that will be

Spring 1994

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placed ad explosive within 1000 factor in evolute ball of an outsignous \$5,000 each, and fairliest the arrest the charge was exposed to be applied to anyone who records to support the fellow thatge. Of course, the protection and the law and withthe the foliage charges essessions from an ducing the booking procedure, see

issufficiations of this piece took years to evertome, and our hearings), and I moundly served 20 days, but fine and the first teat. and thousands of skillers in lost wages, ball board fees, walked along some train tracks The negative 1990 botom of commency service. All this because I leagues, and the public defaults never own appeared at and peaking builty (mently before we could be selected as authorizedly proposing, and we were presented, coerced ireapassing, or sensitive in any way, her, we were mejor struct, in an acceptact was not second act, possed marks we were walking along were only 20 feet from a reliant charge with a mindementor tris possing. Now, the however, so they assistanted fire paratitudes to explane the The sheriffs did not wint to be mabern soud

sympathy, and bagolice have the contempt. rest of America, of not worse. Plater Optib has my effectioned to dearly as mind and about as it to the Unfortunately, when it comes to backing, law shouldn't have accessed them in the first place lock up a couple of 15th for nothing than admit they charges dropped or the "suspent" going free. Blace to anything to avoid the emburressment of having all rayeshigation or make an arrest they will do almost The point is, once how eathers mean officials begin so

I when ching his address in ligitation. And for shope with matter to stay in tour in write total to others so we can all be on the hoology for Thereis for sharing that Burk experiences need to be Rucer X

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Micespile, Pd 17754-0870 P.O. Bez 576

only tillegs allowed are leavest and son-bardcoter printed masser. Only have published our seed fundamen All incoming mall is read by prison contention. The

Correction

does not work. Why? Because DTMF is not equal to the phone is keypad (or your own dialer), then 3.7 Now end when he discusses the use on the Toru Box for Pybed yie's "The Magical Tone Box" article that any new word basic blue bearing Incovientge known this blue briding he mentions "So, to seing, hit 1, 2, dial on appeared in this past Winter addict of 2600. At the Jess mailing you to point out an error on

> for a good action. (Voltage Costs Nor Ossillatory) to any case, master great alternative to building a blue box using VCO's this is difficult with the Tiene Box. I must say it's a numbers are not the same as those used in MF. ME. The your pairs used for DTMF signifing or therefore you must also record above tones. With that

Aleph Ore

microwing works com

Phone Company Charges

without sating a holistic view of a situation the switch" so much as it pays for the cost of paying are their not went to pay for the expense, one does not suffered to make CID work and upgrading of switches. If and probably a lot of other hidden costs, including extra compare to man the phones to answer the request. There the treat of enabling LHD does not pay for the "Epping of muss. I de ses mean to defend the phone company, but 1875 to. I'm died of seeing backers complain about one complete of $S_{\mathbb{P}}(\Omega)$ where the $\cos x \in C(\mathbb{D},1]$ would be 1999 issue and I nothing that if I did not comment on the I was just reading the larges page for the Automo-

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same way resistance is enhanced in penalty. To add caps series Actually, in series, capacitance as calculated the that selve expectioner is added writer caps are placed in in a libear manuer, place them in proule! In the Winter 1994-94 edition, Will Chang writes

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By N. Derek Arnold, ITDO

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Review by Simson L. Gardinkel

comes about breaking into UNIX systems. backs make inceresting reading, if takes a lot of work life upo terrible for the degramme users. While these on keeping backers out of his comparer while not making the point of view of the system operator, Severibilly bear books on the market, almost off there are written from between the lines to get any applied info out of these While there is suddenly a plothora of UNIX security

earn straight to Chapter 8, "Bestle to Techniques." The Sounds, This is a back mined or the backer commency. your wachs. In addition to good technical know-env. goints at attractively class search out log files and never Although the book is filled with ope, most become will expliciting retinerabilities on all kinds of UNIX systems with the ideal of, stay-by-sup tersurations for finding and Arricled shades also on social engineering at well you don't want to got cough); wrongs for criticals that white is all sound: projecte is a virtue (and necessar) of Thoughfully, such is not the case with Amold's AWA

The only confucing saids in Arnold's belief that

it's all in here. He even givers dempoint diving. The into the light pen of a seminal! compared contracts by applicing your nondbook compared damaged diskeress. And that imagine hacking a best part is the lengthy section on jetting data from og so dictionary affails

by changing its databases and not getting conglet. the then? Well, the backet ethic says don't serew things user" play. You just have so find them. What so you username/password codelination SMITH/SMITH. apportunities for the better. Seemewhere there is a more people some caling, there will always be you can prove to yourself that you me really a hacker Stelighterare says that once you see inside a manipular. πρ. But the hatter ethic also says to suphort. The Somewhere there is a new manager open to the "details The Kreightmane maintains that as most and ever

Do What Inside. [lack, The beek begins with The Sacies (hardware, pullinquial American crams a los os carbonizacion into Engineering, Review Social Engineering, and Whol Inthe Hack, Passwords and Acress Control. Social TAP, 2000). Subsequent displays include Representing software, etc.) and The Rispory of Uncking (1898). three sections: Believe Hurst, Buding Hack, and After regardantee is commendable. The book is divided into each sentence. It is a very degree correlive. The Secrets of a Syster Station is very readable. Its

Getting Caught, At 19 come a page, you can't go Naturally, there is a chapter on How to Krap from

syrosp's minager. What searche gacker would do this? electronic mail, allegedly fleet, the speep, to the end, he suggests sanding insuling or horassing forged had as are hell-bear on pening sympo fined. To this Armold is book is a bit sky fa this department. can do once gaining superinses privileges. Sadly, simply so many more rewarding things that a bracker Resides being a great way to get enught, there are

program, the UNEX computer virus for infecting about programs are of limited willing, the backer's price and files, and a utility for greveling through Genferrem. (40 Jages of program theory). White some of the As an added jackpot, Amodd's back contains over

of batteries, a yearsg aspiring backer could go far. bytop west a cultural modern, and a few day's support JUNC's course noose) West DWX Security, a good computer accurate; this book is largely taken from security professionals. (Aradid's company, ITDC, is a McGaew-Hill consulting from which trackes courses in épformation is to create mine work for compaiser besiness. Prohaps his good in publishing this maltes it ideal for those specified in breaking into Emitted value for backing ions the entirersity world, but UNIX Security's beary System V bias makes it of

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trojans in the u.k.

of TELNET, I noticed a gapin' 'cla in the various UNIX mechines, using a PC version Microsystems PC-NFS to access their large ethernet setup running Sun machines. My college for exemple uses a now favour PC's as terminate to their UNIX Many installations, in the UK at least,

command tell, so to legin I could type: net login mylid mypassword pre-specified UNIX machine, Stepidly, it'll take the uid and password from the PONES has a DOS-based login program. password to that found in felopasswell on a similar to Novell's, that compares a given As login authentication for the ethernel

parameter as "" to mean "ask the user". For as the NET program interprets any was marginally more complicated than this program, which would be none the wiser. original parameters on to the original NET errors to put them on the scent. In fact, it would have happened - no authentication This meant that to the user, nothing odd and password) in a secret file, and pass the says any interesting info (such as the pid code that would intercept the net command Trojanising this meant writing a bit of C

Enter username: will make the program respond with

Enter password:

a well offed dream! kill the edition the password). It worked like parameters to the real one (not regetting to questions to the user and then pass them as problem; the Trojan would simply put the But overcoming this wasn't really a

badfy written bit of 8086 code (I called it situations without the need for re-writing the actual code. What I came up with was a Trojan" that could be used in all manner of Keyspy) that does the following. these considering the idea of a "generic

TSRs (terminates and stays resident). 1) When executed, hooks int 15h and

user makes using the "Keyboard Intercept" 2) Records the next forty keystroless the

keytoards - it won't work!

the 1K or so of memory it's been holding hoslage up until than. the key-scan code into to a disk file, unbooks itself from the interrupt table and religious Next time it's executed it dumps down

a tile containing the first forty scan-codes again and it will obediently supply you with Of the Keys the assertied hit was typing. Later on you go back, run it would be noting down everything the user bopefully login. At the time, the program would notice nothing wrong and would TELNET? The next user to come along -2ਵ fultitut adapt ਗੁ uni nok ਸ਼੍ਰਿ uedder What use is this? Ok, what would

caught and the tracker gots a message. program has been trojanised you don't get Trojans is to legin in twice, firstly with a would still get caught. Even if the above user had done this, they denimy password like "FUCKYOU", so if the One way of getting round traditional

insert a command to run Keyspy into the mane code before and after it runs TELNET. networked copy of a DOS menu called can pick them up from: Reyalrokes to a controlly located file where anywhere, Keyspy supplies a copy of their Then, when enyone uses TELNET from Automone, All that needs to be done is to On our network all software is run using a

undocumented calls etc. and quite frankly, I code far more complex with spads of having to be run again but it would make the would dump the info to a file Itself, without ideally, you would have a program that

around an executable file, infecting it so to speak. That way it would be almost edars that program to allow it to wrap itself Adventurous programmers could then

scan-codes to ASCII for your particular sean codes and not ASCII or enything useful like that. It's necessary to write program that convects the alphanumeric The other real downer is that it saves

The Chrome Box

flashes from vehicle magnific stroke lights. seasons on traffic lights that delect a postere of using devices called OptoComs. OptoComs are Emergency vehicles in many cities are now

antiquisore, personedic van, fins truck or police can used to give your car the same priority as an which simulates those strabe patterns can often be intersections. Nevertheless, the Chromo Box. depending on the manufacturer of the equipment used. Often the seasons are installed only at major This flash pattern writes from eity to city

for making the Chrome Bax. systems this article will outline a general procedure Because of the varying patterns on different

Decoding Flush Patterns

you can secure one by calling to a take alarm one by chance, running out to see when you hear s emergency to occur, the if you are very impedient You might wait user a fire section for the new stren, or posting over in your car to let one pass by vehicle in cotion. You can wait until you exceusted First, you need to observe an emergency

of frames between each flash. Fach video frame is of the Tractus in a nomplex pattern. video frames will give you a good idea of the spaning migute and use that to compute the rate. Chanting time between fleshes in the pattern. Another way is to the tage in single-frame mode, comonig the hunder change. If the flash pattern is starte or updea, you can the Bosh cate until you can induce a traffic light to court the nearbor of flusions (or flush groups) in one 1/30th of a second. Using this you can extensive the videxage the exceptiony validity and then play back merely to bey a sembe light at Radio Shark and adjust pollura of single diables at a scendy rhyther, you have If the Option come in your serie was the kind with a

freelance journalist writing an article. creduate Operant systems, or you could post us a consultant and one of your clients asked you to good cover story for this is that you are a effectivity diagram that you can see to build one. A for a service manual, which will include a station and ask there, or write to the manufacturer For really accurate information, oil the first

Modifying the Strobe Light

abbreviated as onf, raffd, or offs. By applicating the inside. Objections are marked in microferads, relows, open it up and find the large capacitor But if you need a faster flash rate that your stroke You may not have to modify the strobe at all.

> smaller value will also speed up the souths. of each ends. Replacing this rasistor with one or Having the microfareds decisies the rate. The other microferede, year can increase the flash rate. (usually 250 valis or many) and a arreling value in several polaced stripes on it, and wires coming out There may also be a resistor (small cylinder with ahms or kottes, attresiated with the greek leave: ocumposout that can be chadged is the potentiometer (the speed outstrot device with the "capage" on the letter \$6) will speed up the strobe. nich en it). Using a smaller vates (occasined in

couled rolery switch and a motor. It has been dead thips, or sig up a machanical device with a multiple. ters to design and build a triggeries circuit using IC To generate a complex gallers, you will either

N 特别的不 医异体 医多种结合 (2) 多元的 Especial coessins a state disease that will but run off of a car battery by plugging into the simplest thing is to get a 110 volt inverter that will On you can figure out (or find to a hobby eigereste lighter and mening the stroke from that tions batteries. Bassey powered snabes may also In modify the stroke for mobile operation the

Stealth Technology

the Chrone Box to operate in traffic undetected by as infrared filter over the strate light may allow infrared (IR) is invisible to the human eye. Furning Editional Science Co. from optical supply Eoreas Eks Dew Coming or police or other observers. IN filters can be obtained sensitive in the inflated area of the light spectrum. tom migrapy employ supersoppe illuminators, or bdost light seasors and phatocails are more

Using the Chrome Box

others that have OptoCome. guscadies you gaves lights in major intersections in Moueted on your car, the Chrome Box can

isso an explained outlet at a leanthornat or gas abilities. gridlock by interfering with the extract flow of enaction inappropriate moments, or you can glag the strobe if you have access to a window diversorking a traffic light, you can play provide by switching the signals at Handheld Chrysne Foncs may be used to attack

Some Decoded Patterns

Shapk sende lights are used. Moderately feet rate. Torrance, California - standard large Radio

4: I ratio, at a taxe of two Bush-quirs per second Marketten Besch, California - Bash pairs to 8

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